Table III

Table III: Human telomerase reverse transcriptase (TERT) Hammerhead Ribozyme and Target Sequence

nt. Position	Ribozyme Sequence	Seq ID Nos.	Substrate Sequence	Seq ID Nos.
13	CGCAGCAG CUGAUGAG GCCGUUAGGC CGAA ACGCAGCG	2780	CGCUGCGU C CUGCUGCG	1
68	GCAGCGGG CUGAUGAG GCCGUUAGGC CGAA AGCGCGCG	2781	CGCGCGCU C CCCGCUGC	2
90	GCAGCAGG CUGAUGAG GCCGUUAGGC CGAA AGCGCACG	2782	CGUGCGCU C CCUGCUGC	3
108	CCCUGCGG CUGAUGAG GCCGUUAGGC CGAA AGUGGCUG	2783	CAGCCACU A CCGCGAGG	4
135	GCCGCACG CUGAUGAG GCCGUUAGGC CGAA ACGUGGCC	2784	GGCCACGU U CGUGCGGC	5
136	CGCCGCAC CUGAUGAG GCCGUUAGGC CGAA AACGUGGC	2785	GCCACGUU C GUGCGGCG	6
194	CGCGCGGA CUGAUGAG GCCGUUAGGC CGAA AGCCGCCG	2786	CGGCGGCU U UCGCGCGG	7
195	GCGCGCGG CUGAUGAG GCCGUUAGGC CGAA AAGCCGCC	2787	GGCGGCUU U CGCGCGCG	8
196	AGCGCGCG CUGAUGAG GCCGUUAGGC CGAA AAAGCCGC	2788	GCGGCUUU C CGCGCGCU	9
264	GGCGGAAG CUGAUGAG GCCGUUAGGC CGAA AGGGGCCG	2789	CGGCCCCU C CUUCCGCC	10
267	CCUGGCGG CUGAUGAG GCCGUUAGGC CGAA AGGAGGGG	2790	CCCCUCCU U CCGCCAGG	11
268	ACCUGGCG CUGAUGAG GCCGUUAGGC CGAA AAGGAGGG	2791	CCCUCCUU C CGCCAGGU	12
315	UCAGGCAG CUGAUGAG GCCGUUAGGC CGAA ACAGCCGG	2792	CCAGGCGU C CUGCCUGA	13
351	CGAAGCCG CUGAUGAG GCCGUUAGGC CGAA AGGCCAGC	2793	GCUGGCCU U CGGCUUCG	14
352	GCGAAGCC CUGAUGAG GCCGUUAGGC CGAA AAGGCCAG	2794	CUGGCCUU C GGCUUCGC	15
357	GCAGCGCG CUGAUGAG GCCGUUAGGC CGAA AGCCGAAG	2795	CUUCGGCU U CGCGCUGC	16
358	AGCAGCGC CUGAUGAG GCCGUUAGGC CGAA AAGCCGAA	2796	UUCGGCUU C GCGCUGCU	17
399	UGGUGGUG CUGAUGAG GCCGUUAGGC CGAA AGGCCUCG	2797	CGAGGCCU U CACCACCA	18
400	CUGGUGGU CUGAUGAG GCCGUUAGGC CGAA AAGGCCUC	2798	GAGGCCUU C ACCACCAG	19
420	UGGGCAGG CUGAUGAG GCCGUUAGGC CGAA AGCUGCGC	2799	GCGCAGCU A CCUGCCCA	20
505	AGCAGGUG CUGAUGAG GCCGUUAGGC CGAA ACCAGCAC	2800	GUGCUGGU U CACCUGCU	21
506	CAGCAGGU CUGAUGAG GCCGUUAGGC CGAA AACCAGCA	2801	UGCUGGUU C ACCUGCUG	22
525	AGCACAAA CUGAUGAG GCCGUUAGGC CGAA AGCGCGCA	2802	UGCGCGCU C UUUGUGCU	23
531	CCAGCACA CUGAUGAG GCCGUUAGGC CGAA AGAGCGCG	2803	CGCGCUCU U UGUGCUGG	24
532	ACCAGCAC CUGAUGAG GCCGUUAGGC CGAA AAGAGCGC	2804	GCGCUCUU U GUGCUGGU	25
547	GCAGCUGG CUGAUGAG GCCGUUAGGC CGAA AGCCACCA	2805	UGGUGGCU C CCAGCUGC	26
553	ACACCUGG CUGAUGAG GCCGUUAGGC CGAA AGGCGCAG	2806	CUGCGCCU A CCAGGUGU	27
581	CGAGCUGG CUGAUGAG GCCGUUAGGC CGAA ACAGCGGC	2807	GCCGCUGU A CCAGCUCG	28
589	GCAGCGGC CUGAUGAG GCCGUUAGGC CGAA AGCUGGUA	2808	UACCAGCU C GGCGCUGC	29
607	CCGGCCU CUGAUGAG GCCGUUAGGC CGAA AGUGGCAG	2809	CUGCCACU C AGGCCGG	30
626	GGGUCCAC CUGAUGAG GCCGUUAGGC CGAA AGCGUGUG	2810	CACACGCU A GUGGACCC	31
644	GCAUCCCA CUGAUGAG GCCGUUAGGC CGAA ACGCCUUC	2811	GAAGGCGU C UGGGAUGC	32
771	CCUGACGC CUGAUGAG GCCGUUAGGC CGAA AUGGUUCC	2812	GGAACCAU A GCGUCAGG	33
776	GCCUCCCU CUGAUGAG GCCGUUAGGC CGAA ACGCCAUG	2813	CAUGGCGU C AGGGAGGC	34
791	CCCAGGGG CUGAUGAG GCCGUUAGGC CGAA ACCCCGGC	2814	GCCGGGGU C CCCCUGGG	35
799	CAACGGCA CUGAUGAG GCCGUUAGGC CGAA ACUUCGGC	2815	GCCGAAGU C UGCCGUUG	36
856	UCCUGGGC CUGAUGAG GCCGUUAGGC CGAA ACGGCAGA	2816	UCUGCCGU U GCCCAAGA	37
903	CCCUGCCC CUGAUGAG GCCGUUAGGC CGAA ACGGGCGU	2817	ACGCCCGU U GGGCAGGG	38
919	GGGCCCAG CUGAUGAG GCCGUUAGGC CGAA ACCCCUGC	2818	GCAGGGGU C CUGGGCCC	39
963	CACACAGA CUGAUGAG GCCGUUAGGC CGAA ACCACAGU	2819	ACUGUGGU U UCUGUGUG	40
964	CCACACAG CUGAUGAG GCCGUUAGGC CGAA AACCACAG	2820	CCGUGGUU U CUGUGUGG	41
965	ACCACACA CUGAUGAG GCCGUUAGGC CGAA AAACCACAG	2821	CGUGGUUU C UGUGUGGU	42
876	UGGCAGGU CUGAUGAG GCCGUUAGGC CGAA ACACCACA	2822	UGUGGUGU C ACCUGCCA	43

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906	CCUCCAAA	CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGGCU	2823	AGCCACCU C UUUGGAGG	44
903	ACCCUCCA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGUGG	2824	CCACCUCU U UGGAGGGU	45
909	CACCCUCC	CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGGUG	2825	CACCUCUU U GGAGGGUG	46
922	GUGCCAGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCACC	2826	GGUGCGCU C UCUGGCAC	47
924	GCGUGCCA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCGCA	2827	UGCGCUCU C UGGCAGC	48
933	AUGGGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGUGGCGC	2828	GCGCCACU C CCACCCAU	49
948	GGCCACG	CUGAUGAG	GCCGUUAGGC	CGAA	AUGGGUGG	2829	CCACCCAU C CGUGGGCC	50
931	GCGAUGUG	CUGAUGAG	GCCGUUAGGC	CGAA	AUGGGGGG	2830	GCCCCCAU C CACAUCGC	51
937	GUGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAU	2831	AUCCACAU C GCGGCCAC	52
1001	GUCCCAGG	CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGGUG	2832	CACCACGU C CCUGGGAC	53
1016	CGGGGAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGUGU	2833	ACAGCCCU U GUCCCCCG	54
1019	CACGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGGGG	2834	CGGCUUGU C CCCCGGUG	55
1029	UCUCGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	ACACCGGG	2835	GCCGUUGU A CGCCGAGA	56
1042	AGUAGAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGUGCUUG	2836	GAAGCACU U CCUCUACU	57
1045	GAGUAGAG	CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGCUU	2837	AAGCACUU C CUCUACUC	58
1051	GAGGAGUA	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAGUG	2838	CACUUCCU C UACCCUC	59
1052	CUGAGGAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGAAG	2839	CUUCUUCU A CUCCUCAG	5
1057	CGGCUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGUAGAGG	2840	CCUCUACU C CUCAGGCG	61
1069	UGCGGCCU	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGUAG	2841	CUACUCCU C AGGCGACA	62
1084	GUAGGAAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGGCGC	2842	GCGGCCCU C CUUCCUAC	63
1089	UGAGUAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGGU	2843	GCCCUCCU U CCUACUCA	64
1091	CUGAGUAG	CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAGGG	2844	CCCUCCUU C CUACUCAG	65
1092	GAGCUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAGGA	2845	GCCUUCCU A CUCAGCUC	66
1098	AGAGAGCU	CUGAUGAG	GCCGUUAGGC	CGAA	AGUAGGAA	2846	UUCCUACU C AGCUCUCU	67
1101	GCCUCAGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGAGU	2847	ACUCAGCU C UCUGAGGC	68
1102	GGGCUUCA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCUGA	2848	UCAGCUCU C UGAGGCCC	69
1122	GAGCCUCC	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGGCAG	2849	CUGGCGCU C GGAGGCUC	70
1133	GUCUCCAC	CUGAUGAG	GCCGUUAGGC	CGAA	AGCCCCCG	2850	CGGAGGCU C GUGGAGAC	71
1147	CCCAGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUCUC	2851	GAGACCAU C UUUCUGGG	72
1149	AACCCAGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGGUC	2852	GACCAUCU U UCUGGGUU	73
1150	GAACCCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AAGAUGGU	2853	ACCAUCUU U CUGGGUUC	74
1151	GGAACCCA	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAUGG	2854	CCAUCUUU C UGGGUUCC	75
1157	GGGCCUGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCCAGAA	2855	CUCUGGGU U CCAGGCCC	76
1159	AGGGCCUG	CUGAUGAG	GCCGUUAGGC	CGAA	AACCCAGA	2856	UCUGGGUU C CAGGCCCU	77
1161	CCUGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGUCCCCG	2857	CAGGGACU C CCCGCAGG	78
1191	GGCGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ACCCGCCG	2858	GCGGCAGGU U GCCCCGCC	79
1211	UUUGCCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGGCGG	2859	CCAGCGCU A CUGGCAAA	80
1234	GUUCCAGA	CUGAUGAG	GCCGUUAGGC	CGAA	ACAGGGC	2860	GCCCCUGU U UCUGGAGC	81
1234	AGCCCCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AACAGGGG	2861	CCCCUGUU U CUGGAGCU	82
1235	CAGCCCCA	CUGAUGAG	GCCGUUAGGC	CGAA	AAACAGGG	2862	CCCUGUUU C UGGAGCUG	83
1249	UGGUCCGC	CUGAUGAG	GCCGUUAGGC	CGAA	AGCACCUC	2863	GAGCUGCU U CGGAACCA	84
1269	GCACCCG	CUGAUGAG	GCCGUUAGGC	CGAA	AGGGGCAC	2864	GCGCCCCU A CGGGGUGC	85
1277	GCCUUCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCACCCC	2865	GGGGUGCU C CUCAAGGC	86
1282	UGCGGCUU	CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGCAC	2866	GCGCCUCU C AAGAGCCA	87
1312	GCUGGGGU	CUGAUGAG	GCCGUUAGGC	CGAA	ACCCCAGC	2867	GCCGGCGGU C ACCCCAGC	88
1333	GGGCACA	CUGAUGAG	GCCGUUAGGC	CGAA	ACACCCGC	2868	GCCGGUGU C UGUGCCCG	89
1356	CCGCCACA	CUGAUGAG	GCCGUUAGGC	CGAA	AGCCCUGG	2869	CCAGGGCU C UGUGGCGG	90

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1394	CACCAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ACGGGGGU	2870	ACCCCGU C GCCUGGUG	91
1431	UGCUGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGCUG	2871	CAGCUGCU C CGCCAGCA	92
1440	CGAAGCCG	CUGAUGAG	GCCGUUAGGC	CGAA	ACACCUGC	2872	GCAGGUGU A CGGCUUCG	93
1446	CCCGCACG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCCGUAC	2873	GUACGGCU U CGUGCGGG	94
1447	GCCCGCAC	CUGAUGAG	GCCGUUAGGC	CGAA	AAGCCGUA	2874	UACGGCUU C GUGCGGGC	95
1486	GAGCCCCA	CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCUGG	2875	CCAGGCCU C UGGGGCUC	96
1494	UGUGCCUG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCCCCAG	2876	CUGGGGCU C CAGGCACA	97
1515	UCCUGAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGGCGU	2877	ACGCCGCU U CCUCAGGA	98
1516	UUCCUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	AAGCGGCG	2878	CGCCGCUU C CUCAGGAA	99
1519	GUGUUCCU	CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGCCG	2879	CGGCUUCC U AGGAACAC	100
1536	GGAGAUG	CUGAUGAG	GCCGUUAGGC	CGAA	ACUUCUUG	2880	CAAGAAGU U CAUCUCCC	101
1537	AGGAGAU	CUGAUGAG	GCCGUUAGGC	CGAA	AACUUCUU	2881	AAGAAGUU C AUCUCCU	102
1540	CCCAGGGA	CUGAUGAG	GCCGUUAGGC	CGAA	AUGAACUU	2882	AAGUUCAU C UCCUGGG	103
1542	UCCCCAGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGAAC	2883	GUUCAUCU C CCUGGGGA	104
1564	UGCAGCGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGCUUGGC	2884	GCCAAGCU C UUCGUGCA	105
1566	CCUGCAGC	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCUUG	2885	CAAGCUCU C GCUGCAGG	106
1610	GCGCAGCC	CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCAGU	2886	ACUGCGCU U GGCGGCGC	107
1633	ACACAGCC	CUGAUGAG	GCCGUUAGGC	CGAA	ACCCCUGG	2887	CCAGGGGU U GGCUGUGU	108
1642	GCGGCCGG	CUGAUGAG	GCCGUUAGGC	CGAA	ACACAGCC	2888	GGCUGUGU U CCGGCCGC	109
1647	UGCGGCCG	CUGAUGAG	GCCGUUAGGC	CGAA	AACACAGC	2889	GCUGUGUU C CGGCCGCA	110
1661	CUCACGCA	CUGAUGAG	GCCGUUAGGC	CGAA	ACGGUGCU	2890	AGCACCGU C UGCGUGAG	111
1675	UUGGCCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AUCUCCUC	2891	GAGGAGAU C CUGGCCAA	112
1686	AGUGCAGG	CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGGCC	2892	GGCCAAGU U CCUGCACU	113
1687	CAGUGCAG	CUGAUGAG	GCCGUUAGGC	CGAA	AACUUGGC	2893	GCCAAGUU C CUGCACUG	114
1710	CGACGACG	CUGAUGAG	GCCGUUAGGC	CGAA	ACACAUCG	2894	GAGUGUGU A CGUCGUCG	115
1714	AGCUCGAC	CUGAUGAG	GCCGUUAGGC	CGAA	ACGUACAC	2895	GUGUACGU C GUCGAGCU	116
1717	AGCAGCUC	CUGAUGAG	GCCGUUAGGC	CGAA	ACGACGUA	2896	UACGUCGU C GAGCUGCU	117
1726	AAAGACCU	CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGCUC	2897	GAGCUGCU C AGGUCUUU	118
1731	AAAAGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGAGC	2898	GCUCAGGU C UUUCUUUU	119
1733	AUAAAAGA	CUGAUGAG	GCCGUUAGGC	CGAA	AGACCUGA	2899	UCAGGUCU U UCUUUAU	120
1734	CAUAAAAG	CUGAUGAG	GCCGUUAGGC	CGAA	AAGACCUG	2900	CAGGUCUU U CUUUUAUG	121
1735	ACAUAAAA	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGACCU	2901	AGGUCUUU C UUUAUGU	122
1737	UGACAUAA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAAAGAC	2902	GUCUUUCU U UUAUGUCA	123
1738	GUGACAUA	CUGAUGAG	GCCGUUAGGC	CGAA	AAGAAAGA	2903	UCUUUCUU U UAUGUCAC	124
1739	CGUGACAU	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAAAG	2904	CUUUCUUU U AUGUCACG	125
1740	CCGUGACA	CUGAUGAG	GCCGUUAGGC	CGAA	AAAAGAAA	2905	UUUCUUUU A UGUCACGG	126
1744	GCCGUGCU	CUGAUGAG	GCCGUUAGGC	CGAA	ACACAAAA	2906	UUUUAUGU C AUGGAGCA	127
1758	UCUUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGGUG	2907	GACCACGU U UCAAAAGA	128
1759	UUCUUUUG	CUGAUGAG	GCCGUUAGGC	CGAA	AACGUGGU	2908	ACCACGUU U CAAAAGAA	129
1760	GUUCUUUU	CUGAUGAG	GCCGUUAGGC	CGAA	AAACGUGG	2909	CCACGUUU C AAAAGAAC	130
1774	UAGAAAAA	CUGAUGAG	GCCGUUAGGC	CGAA	AGCCUGUU	2910	AACAGGCU C UUUUCUA	131
1776	GGUAGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCCUG	2911	CAGGCUCU U UUCCACC	132
1777	CGGUAGAA	CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGCCU	2912	AGGCUCUU U UCCACCG	133
1778	CCGGUAGA	CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGCC	2913	GGCUCUUU U CCACCGG	134
1779	UCCGGUAG	CUGAUGAG	GCCGUUAGGC	CGAA	AAAAGAGC	2914	GCUCUUUU C CACCGGA	135
1780	UUCCGGUA	CUGAUGAG	GCCGUUAGGC	CGAA	AAAAAGAG	2915	CUCUUUUU C UACCGGAA	136
1782	UCUUCCGG	CUGAUGAG	GCCGUUAGGC	CGAA	AGAAAAAG	2916	CUUUUUCU A CCGGAAGA	137

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1795	UUGCUCCA CUGAUGAG GCCGUUAGGC CGAA ACACUCUU	2917	AAGAGUGU C UGGAGCAA	138
1806	UGCUUUGC CUGAUGAG GCCGUUAGGC CGAA ACUUGCUC	2918	GAGCAAGU U GCAAAGCA	139
1816	CUGAUUCC CUGAUGAG GCCGUUAGGC CGAA AUGCUUUG	2919	CAAAGCAU U GGAAUCAG	140
1822	UGCUGUCU CUGAUGAG GCCGUUAGGC CGAA AUUCCAAU	2920	AUUGGAAU C AGACAGCA	141
1823	CCCUCUUC CUGAUGAG GCCGUUAGGC CGAA AGUGCUGU	2921	ACAGCACU U GAAGAGGG	142
1860	CUGCUUCC CUGAUGAG GCCGUUAGGC CGAA ACAGCUCC	2922	GGAGCUGU C GGAAGCAG	143
1873	UGCUGCCU CUGAUGAG GCCGUUAGGC CGAA ACCUCUGC	2923	GCAGAGGU C AGGCAGCA	144
1882	GGCUUCCC CUGAUGAG GCCGUUAGGC CGAA AUGCUGCC	2924	GGCAGCAU C GGGAAGCC	145
1911	GGAGUCUG CUGAUGAG GCCGUUAGGC CGAA ACGUCAGC	2925	GCUGACGU C CAGACUCC	146
1918	AUGAAGCG CUGAUGAG GCCGUUAGGC CGAA AGUCUGGA	2926	UCCAGACU C CGUUCAU	147
1923	UGGGAUCG CUGAUGAG GCCGUUAGGC CGAA AGCGGAGU	2927	ACUCCGCU U CAUCCUCA	148
1974	UUGGGGAU CUGAUGAG GCCGUUAGGC CGAA AAGCGGAG	2928	CUCCGCUU C AUCCUCAA	149
1927	GGCUUGAG CUGAUGAG GCCGUUAGGC CGAA AUGAAGCG	2929	UGCUUCAU C CUCAAGCC	150
1954	AUGUUCAC CUGAUGAG GCCGUUAGGC CGAA AUCGGCCG	2930	CGGCCGAU U GUGAACAU	151
1968	GCACGACG CUGAUGAG GCCGUUAGGC CGAA AGUCCAUG	2931	CAUGGACU A CGUCGUGG	152
1977	GCUCCCAC CUGAUGAG GCCGUUAGGC CGAA ACGUAGUC	2932	GACUACGU C GUGGGAGC	153
1989	CUCUGCGG CUGAUGAG GCCGUUAGGC CGAA ACGUUCUG	2933	CAGAACGU U CCGCAGAG	154
1990	UCUGUGCG CUGAUGAG GCCGUUAGGC CGAA AACGUUCU	2934	AGAACGUU C CGCAGAGA	155
2015	UGAGGUGA CUGAUGAG GCCGUUAGGC CGAA ACGUCUGG	2935	CCGAGCGU C UUCACCUCG	156
2017	CUUGAGGU CUGAUGAG GCCGUUAGGC CGAA AGACGUCU	2936	GAGCGUCU C ACCUCGAG	157
2022	UCACCCUC CUGAUGAG GCCGUUAGGC CGAA AGGUGAGA	2937	UCUCACCU C GAGGGUGA	158
2040	GCACGCUG CUGAUGAG GCCGUUAGGC CGAA ACAGUGCC	2938	GGCACUGU U CAGCGUGC	159
2041	AGCACGCU CUGAUGAG GCCGUUAGGC CGAA AACAGUGC	2939	GCACUGUU C AGCGUGCU	160
2050	UCGUAGUU CUGAUGAG GCCGUUAGGC CGAA AGCACGCU	2940	AGCGUGCU C AACUACGA	161
2055	CCCGCUCG CUGAUGAG GCCGUUAGGC CGAA AGUUGAGC	2941	GCUCAACU A CGAGCGGG	162
2080	GGGCCCAG CUGAUGAG GCCGUUAGGC CGAA AGCCCGGG	2942	CCCGGGCU C CUGGGCCC	163
2091	CCAGCACA CUGAUGAG GCCGUUAGGC CGAA AGGCGCCC	2943	GGGCGCCU C UGUGCUGG	164
2111	CCUGUGGA CUGAUGAG GCCGUUAGGC CGAA AUCGUCCA	2944	UGGACGAU A UCCACAGG	165
2113	GCCCUGUG CUGAUGAG GCCGUUAGGC CGAA AUAUCGUC	2945	GACGAUAU C CACAGGGC	166
2132	GCAGCACG CUGAUGAG GCCGUUAGGC CGAA AGGUGCGC	2946	GCGCACCU U CGUGCUGC	167
2134	CGCAGCAC CUGAUGAG GCCGUUAGGC CGAA AAGGUGCG	2947	CGCACCUU C GUGCUGCG	168
2176	UGACAAAG CUGAUGAG GCCGUUAGGC CGAA ACAGCCCA	2948	UGGGCUGU A CUUUGUCA	169
2178	CCUUGACA CUGAUGAG GCCGUUAGGC CGAA AGCACAGU	2949	GCCGUACU U UGUCAAGG	170
2179	ACCUUGAC CUGAUGAG GCCGUUAGGC CGAA AAGUACAG	2950	CUGUACUU U GUCAAGGU	171
2182	UGCACCUU CUGAUGAG GCCGUUAGGC CGAA ACAAAGUA	2951	UACUUUGU C AAGGGGA	172
2205	UGGCGUCG CUGAUGAG GCCGUUAGGC CGAA AGGCGCCC	2952	GGGCGCCU A CGACACCA	173
2225	GCCUGGGG CUGAUGAG GCCGUUAGGC CGAA AUGGUGCC	2953	GACACCAU C CCCAGGA	174
2230	ACGUCCGU CUGAUGAG GCCGUUAGGC CGAA AGCCCGCC	2954	GACAGGCU C ACGGAGGU	175
2239	CUGGCGAU CUGAUGAG GCCGUUAGGC CGAA ACCUCCGU	2955	ACGGAGGU C ACGGCCAG	176
2243	AUGCUGGC CUGAUGAG GCCGUUAGGC CGAA AUGACCUC	2956	GAGGUCAU C GCCAGCAU	177
2251	GGUUUGAU CUGAUGAG GCCGUUAGGC CGAA AUGCUGGC	2957	GCCAGCAU C AUCAAAGC	178
2254	UGGGGUUU CUGAUGAG GCCGUUAGGC CGAA AUGAUGCU	2958	AGCAUCAU C AAACCCCA	179
2271	GCAGGCAG CUGAUGAG GCCGUUAGGC CGAA ACGUGUCC	2959	GAACACGU A CUGCGUGC	180
2282	GGCAUACC CUGAUGAG GCCGUUAGGC CGAA AGGCACGC	2960	GCGUGCUU C GGUAUGCC	181
2286	CCACGGCA CUGAUGAG GCCGUUAGGC CGAA AUGGAUGC	2961	GCGUCGGU A UGCCGUGG	182
2296	GCCUUCGG CUGAUGAG GCCGUUAGGC CGAA ACCACGGC	2962	GCCGUGGU C CAGAAGGC	183
2320	GCCUUCGG CUGAUGAG GCCGUUAGGC CGAA ACGUGCUC	2963	GCGCACGU C CGCAAGGC	184

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2331	GGCUCUUG CUGAUGAG GCCGUUAGGC CGAA AGGCCUUG	2964	CAAGGCCU U CAAGAGCC	185
2332	UGGCUCUU CUGAUGAG GCCGUUAGGC CGAA AAGGCCUU	2965	AAGGCCUU C AAGAGCCA	186
2344	AAGGUAGA CUGAUGAG GCCGUUAGGC CGAA ACGUGGCU	2966	AGCCACGU C UCUACCUU	187
2346	UCAAGGUA CUGAUGAG GCCGUUAGGC CGAA AGACGUGG	2967	CCACGUCU C UACCUUGA	188
2348	UGUCAAGG CUGAUGAG GCCGUUAGGC CGAA AGAGACGU	2968	ACGUCUCU A CCUUGACA	189
2352	GGUCUGUC CUGAUGAG GCCGUUAGGC CGAA AGGUAGAG	2969	CUCUACCU U GACAGACC	190
2362	UACGGCUG CUGAUGAG GCCGUUAGGC CGAA AGGUCUGU	2970	ACAGACCU C CAGCCGUA	191
2370	GUCGGAUG CUGAUGAG GCCGUUAGGC CGAA AUGGCUGG	2971	CCAGCCGU A CAUCCGAC	192
2382	GAGCCACG CUGAUGAG GCCGUUAGGC CGAA ACUGUCGG	2972	GCGACAGU U CGUGGCUC	193
2383	UGAGCCAC CUGAUGAG GCCGUUAGGC CGAA AACUGUCG	2973	CGACAGUU C GUGGCUCA	194
2390	CUGCAGGU CUGAUGAG GCCGUUAGGC CGAA AGCCACGA	2974	UCGUGGCU C ACCUGCAG	195
2425	UCGAUGAC CUGAUGAG GCCGUUAGGC CGAA ACGGCAUC	2975	GAUGUCGU C GUCAUCGA	196
2428	UGCUUGAU CUGAUGAG GCCGUUAGGC CGAA ACGACGGC	2976	GCCGUCGU C AUCGACGA	197
2431	CUCUGCUU CUGAUGAG GCCGUUAGGC CGAA AUGACGAC	2977	GUCGUCAU C GACGAGAG	198
2442	UCAGGAG CUGAUGAG GCCGUUAGGC CGAA AGCUCUGC	2978	GCGAGAGCU C CUCCUGA	199
2445	CAUUCAGG CUGAUGAG GCCGUUAGGC CGAA AGGAGCUC	2979	GAGCUCCU C CCUGAAUG	200
2470	ACGUCGAA CUGAUGAG GCCGUUAGGC CGAA AGCCCACU	2980	AGUGGCCU C UUCGACGU	201
2472	AGACGUCG CUGAUGAG GCCGUUAGGC CGAA AGAGGCCA	2981	UGGCCUCU U UCGACGUCU	202
2473	AAGACGUC CUGAUGAG GCCGUUAGGC CGAA AAGAGGCC	2982	GGCCUCUU C GACGUCUU	203
2479	CGUAGGAA CUGAUGAG GCCGUUAGGC CGAA ACGUCGAA	2983	UUCGACGU C UUCUACG	204
2481	ACGGUAGG CUGAUGAG GCCGUUAGGC CGAA AGACGUCG	2984	CGACGUCU U CCUACGCU	205
2482	AACGGUAG CUGAUGAG GCCGUUAGGC CGAA AAGACGUC	2985	GACGUCUU C CUACGCUU	206
2485	AUGAACGG CUGAUGAG GCCGUUAGGC CGAA AGGAAGAC	2986	GUCUUCCU A CGCUUCAU	207
2490	GGCACAUG CUGAUGAG GCCGUUAGGC CGAA AGCGUAGG	2987	CCUACGCU U CAUGUGCC	208
2491	UGGCACAU CUGAUGAG GCCGUUAGGC CGAA AAGCGUAG	2988	CUACGCUU C AUGUGCCA	209
2516	UUGCCCCU CUGAUGAG GCCGUUAGGC CGAA AUGCCCAU	2989	GUGCCCAU C AGGGGCAA	210
2526	GGACGUAG CUGAUGAG GCCGUUAGGC CGAA ACUUGCCC	2990	GGGCAAGU C CUACGUCC	211
2529	ACUGGACG CUGAUGAG GCCGUUAGGC CGAA AGGACUUG	2991	CAAGUCCU A CGUCCAGU	212
2533	UGGCACUG CUGAUGAG GCCGUUAGGC CGAA ACGUAGGA	2992	UCCUACGU C CAGUGCCA	213
2543	CCCUGCGG CUGAUGAG GCCGUUAGGC CGAA AUCCCCUG	2993	CAGGGGAU C CCGCAGGG	214
2554	AGAGGAUG CUGAUGAG GCCGUUAGGC CGAA AGCCCUGC	2994	GCAGGGCU C CAUCCUCU	215
2563	GUGGAGAG CUGAUGAG GCCGUUAGGC CGAA AUGGAGCC	2995	GGCUCCAU C CUCUCCAC	216
2568	AGCGUGGA CUGAUGAG GCCGUUAGGC CGAA AGGAUGGA	2996	UCCAUCCU C UCCACGCU	217
2569	GCAGCGUG CUGAUGAG GCCGUUAGGC CGAA AGAGGAUG	2997	CAUCCUCU C CACGCUGC	218
2574	AGGCUGCA CUGAUGAG GCCGUUAGGC CGAA AGCAGCGU	2998	ACGCUGCU C UGCAGCCU	219
2592	UGUCGCGG CUGAUGAG GCCGUUAGGC CGAA AGCACAGG	2999	CCUGUGCU A CGCGACA	220
2616	UGCCCGCA CUGAUGAG GCCGUUAGGC CGAA ACAGCCUG	3000	CAAGCUGU U UGCGGGA	221
2617	AUGCCCGC CUGAUGAG GCCGUUAGGC CGAA AACAGCUU	3001	AAGCUGUU U GCGGGAU	222
2626	UCCCGCGG CUGAUGAG GCCGUUAGGC CGAA AUCCCCGC	3002	GCGGGAU U GGGCGGA	223
2627	GUCCCGCC CUGAUGAG GCCGUUAGGC CGAA AAUCCCCG	3003	CGGGAUU C GGCGGAC	224
2644	AAACGCAG CUGAUGAG GCCGUUAGGC CGAA AGCAGCCC	3004	GGGCUGCU C CUGCGUUU	225
2651	AUCCAGCA CUGAUGAG GCCGUUAGGC CGAA ACGCAGGA	3005	UCCUGCGU U UGGUGGAU	226
2653	CAUCCAGC CUGAUGAG GCCGUUAGGC CGAA AACGCAGG	3006	CCUGCGUU U GGUGGAUG	227
2663	CAACAAGA CUGAUGAG GCCGUUAGGC CGAA AUCACCCA	3007	UGGAUGAU U UCUUGUUG	228
2664	CCAACAAG CUGAUGAG GCCGUUAGGC CGAA AAUCAUCC	3008	GGAUGAUU U CUUGUUGG	229
2665	ACCAACAA CUGAUGAG GCCGUUAGGC CGAA AAAUCAUC	3009	GAUGAUUU C UUGUUGGU	230
2667	UCACCAAC CUGAUGAG GCCGUUAGGC CGAA AGAAAUCA	3010	UGAUUUCU U GUUGGUGA	231

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Table III

2670	GUGUCACC CUGAUGAG GCCGUUAGGC CGAA ACAAGAAA	3011	UUUCUUGU U GGUGACAC	232
2681	GGUGAGGU CUGAUGAG GCCGUUAGGC CGAA AGGUGUCA	3012	UGACACCU C ACCUCACC	233
2686	GCGUGGGU CUGAUGAG GCCGUUAGGC CGAA AGGUGAGG	3013	CCUCACCU C ACCCACGC	234
2703	UCCUGAGG CUGAUGAG GCCGUUAGGC CGAA AGGUUUUC	3014	GAAAUCCU U CCUCAGGA	235
2704	GUCCUGAG CUGAUGAG GCCGUUAGGC CGAA AAGGUUUU	3015	AAAACCUU C CUCAGGAC	236
2707	AGGGUCCU CUGAUGAG GCCGUUAGGC CGAA AGGAAGGU	3016	ACCUUCCU C AGGACCCU	237
2719	ACACCUGG CUGAUGAG GCCGUUAGGC CGAA ACCAGGGU	3017	ACCCUGGU C CGAGGUGU	238
2728	UACUCAGG CUGAUGAG GCCGUUAGGC CGAA ACACCUGG	3018	CGAGGUGU C CCUGAGUA	239
2736	CGCAGCCA CUGAUGAG GCCGUUAGGC CGAA ACUCAGGG	3019	CCCUGAGU A UGGCUGCG	240
2754	UCUUCCGC CUGAUGAG GCCGUUAGGC CGAA AGUUCACC	3020	GGUGAACU U GCGGAAGA	241
2775	CUACAGGG CUGAUGAG GCCGUUAGGC CGAA AGUUCACC	3021	GGUGAACU U CCCUGUAG	242
2777	UCUACAGG CUGAUGAG GCCGUUAGGC CGAA AAGUUCAC	3022	GUGAACUU C CCUGUAGA	243
2780	UCGUCUUC CUGAUGAG GCCGUUAGGC CGAA ACAGGAA	3023	UUCCCUGU A GAAGACGA	244
2810	CUGAACAA CUGAUGAG GCCGUUAGGC CGAA AGCCGUGG	3024	GCAUGGCU U UUGUUCAG	245
2811	UCUGAACA CUGAUGAG GCCGUUAGGC CGAA AGCCGUG	3025	CACGGCUU U UGUUCAGA	246
2812	AUCUGAAC CUGAUGAG GCCGUUAGGC CGAA AAGCCGU	3026	ACGGCUUU U GUUCAGAU	247
2815	GGCAUCUG CUGAUGAG GCCGUUAGGC CGAA ACAAAAGC	3027	GCUUUUGU U CAGAUGCC	248
2816	CGGCAUCU CUGAUGAG GCCGUUAGGC CGAA AACAAAAG	3028	CUUUUGUU C AGAUGCCG	249
2836	CAGGGGAA CUGAUGAG GCCGUUAGGC CGAA AGCCCGUG	3029	CACGGGCU A UUCCCCUG	250
2838	ACCAGGGG CUGAUGAG GCCGUUAGGC CGAA AUAGCCCG	3030	CGGGCUAU U CCCCUGGU	251
2854	CACCAGGG CUGAUGAG GCCGUUAGGC CGAA AAUAGCCC	3031	GGCCUAUU C CCUGGUGG	252
2864	GGUCCGGG CUGAUGAG GCCGUUAGGC CGAA AUCCAGCA	3032	UGCUGGAU A CCCGGACC	253
2890	AGCUGGAG CUGAUGAG GCCGUUAGGC CGAA AGUCGCUG	3033	GAGCGACU A CUCCAGCU	254
2895	CAUAGCUG CUGAUGAG GCCGUUAGGC CGAA AGUAGUCG	3034	CGACUACU C CAGCUAUG	255
2901	UCCGGGCA CUGAUGAG GCCGUUAGGC CGAA AGCUGGAG	3035	CUCCAGCU A UGCCCGGA	256
2913	CUCUGAUG CUGAUGAG GCCGUUAGGC CGAA AGGUCCGG	3036	CCGGACCU C CAUCAGAG	257
2927	CUGGCUGU CUGAUGAG GCCGUUAGGC CGAA AUGGAGGU	3037	ACCUCCAU C AGAGCCAG	258
2927	GAAGGUGA CUGAUGAG GCCGUUAGGC CGAA ACUGGCUC	3038	GAGCCAGU C UCACCUUC	259
2928	UUGAAGGU CUGAUGAG GCCGUUAGGC CGAA AGACUGGC	3039	GCCAGUCU C ACCUUCAA	260
2934	CGCGGUUG CUGAUGAG GCCGUUAGGC CGAA AGGUGAGA	3040	UCUCACCU U CAACCGCG	261
2935	CCGCGGUU CUGAUGAG GCCGUUAGGC CGAA AAGGUGAG	3041	CUCACCUU C AACCGCGG	262
2946	CAGCCUUG CUGAUGAG GCCGUUAGGC CGAA AGCCGCGG	3042	CCGCGGCU U CAAGGCUG	263
2947	CCAGCCUU CUGAUGAG GCCGUUAGGC CGAA AAGCCGCG	3043	CGCGGCUU C AAGGCUGG	264
2964	GAGUUUGC CUGAUGAG GCCGUUAGGC CGAA ACCCAUGU	3044	ACAUGGGU C GCAAACUC	265
2977	ACCCCAAA CUGAUGAG GCCGUUAGGC CGAA AGUUUGCG	3045	CGCAAACU C UUUGGGGU	266
2979	AGACCCCA CUGAUGAG GCCGUUAGGC CGAA AGAUUUUG	3046	CAAAUCUU U UGGGGUCU	267
2980	AAGACCCC CUGAUGAG GCCGUUAGGC CGAA AAGAUUUU	3047	AAAUCCUU U GGGGUCUU	268
2984	AGCCGCAA CUGAUGAG GCCGUUAGGC CGAA ACCCCAAA	3048	CUUGGGGU C UUGCGGCU	269
2984	UCAGCCGC CUGAUGAG GCCGUUAGGC CGAA AGACCCCA	3049	CGGGGUCU U GCGGCUGA	270
3002	CAGGCUGU CUGAUGAG GCCGUUAGGC CGAA ACACUUCA	3050	CGAAGUGU C ACAGCCUG	271
3012	AAUCCAGA CUGAUGAG GCCGUUAGGC CGAA ACAGCCUG	3051	CAGCCUGU U UCUGGAUU	272
3013	AAAUCCAG CUGAUGAG GCCGUUAGGC CGAA AACAGCCU	3052	AGCCUGUU U CUGGAUUU	273
3014	CAAAUCCA CUGAUGAG GCCGUUAGGC CGAA AAACAGCC	3053	GCCUGUUU C UGGAUUUG	274
3020	CACCGCCA CUGAUGAG GCCGUUAGGC CGAA AUCCAGAA	3054	UUCUGGAU U UGGCAGGUG	275
3021	UCACCGCC CUGAUGAG GCCGUUAGGC CGAA AAUCCAGA	3055	UCCUGGAUU U GCAGGUGA	276
3037	ACCGUCUG CUGAUGAG GCCGUUAGGC CGAA AGGCUGUU	3056	AACAGCCU C CAGACGGU	277
3053	AUCUUGUA CUGAUGAG GCCGUUAGGC CGAA AUGUUGGU	3057	ACCAACAU C UACAAGAU	278

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Table III

3060	GGAUCUUG CUGAUGAG GCCGUUAGGC CGAA AGAUGUUG	3058	CAACAUCU A CAAGAUCC	279
3067	AGCAGGAG CUGAUGAG GCCGUUAGGC CGAA AUCUUGUA	3059	UACAAGAU C CUCCUGCU	280
3070	UGCAGCAG CUGAUGAG GCCGUUAGGC CGAA AGGAUCUU	3060	AAGAUCCU C CUGCUGCA	281
3084	GAAACCUG CUGAUGAG GCCGUUAGGC CGAA AGGCCGC	3061	GCAGGCGU A CAGGUUUC	282
3090	AUGCGUGA CUGAUGAG GCCGUUAGGC CGAA ACCUGUAC	3062	GUACAGGU U UCAGGCAU	283
3091	CAUGCGUG CUGAUGAG GCCGUUAGGC CGAA AACCUGUA	3063	UACAGGUU U CAGGCAUG	284
3092	ACAUGCGU CUGAUGAG GCCGUUAGGC CGAA AAACCUGU	3064	ACAGGUUU C AGGCAUGU	285
3112	UGAAAUGG CUGAUGAG GCCGUUAGGC CGAA AGCUGCAG	3065	CUGCAGCU C CCAUUUCA	286
3117	GCUGAUGA CUGAUGAG GCCGUUAGGC CGAA AUGGGAGC	3066	GCUCCCAU U UCAUCAGC	287
3118	UGCUGAUG CUGAUGAG GCCGUUAGGC CGAA AAUGGGAG	3067	CUCCCAUU U CAUCAGCA	288
3119	UUGCUGAU CUGAUGAG GCCGUUAGGC CGAA AAAUGGGA	3068	UCCCAUUU C AUCAGCAA	289
3122	AACUUGCU CUGAUGAG GCCGUUAGGC CGAA AUGAAAUG	3069	CAUUUCAU C AGCAAGUU	290
3130	UUCUUGCA CUGAUGAG GCCGUUAGGC CGAA ACUUGCUG	3070	CAGCAAGU U GCAAGAA	291
3131	GUUCUUGC CUGAUGAG GCCGUUAGGC CGAA AACUUGCU	3071	AGCAAGUU G GAAGAAC	292
3147	GCAGGAAA CUGAUGAG GCCGUUAGGC CGAA AUGUGGGG	3072	CCCCACAU U UUUCCUGC	293
3148	CGCAGGAA CUGAUGAG GCCGUUAGGC CGAA AAUGUGGG	3073	CCCACAUU U UUUCCUGCG	294
3149	GCGCAGGA CUGAUGAG GCCGUUAGGC CGAA AAAUGUGG	3074	CCACAUUU U UCCUGCGC	295
3150	CGCGCAGG CUGAUGAG GCCGUUAGGC CGAA AAAAUGUG	3075	CACAUUUU U CCUGCGCG	296
3151	ACGCGCAG CUGAUGAG GCCGUUAGGC CGAA AAAAAUGU	3076	ACAUUUUU C CUGCGCGU	297
3160	UCAGAGAU CUGAUGAG GCCGUUAGGC CGAA ACGCGCAG	3077	CUGCGCGU C AUCUCUGA	298
3163	GUGUCAGA CUGAUGAG GCCGUUAGGC CGAA AUGAGCGG	3078	CCGCUCAU C UCUGACAC	299
3165	CCGUGUCA CUGAUGAG GCCGUUAGGC CGAA AGAUGAGC	3079	CGCUCAUCU C UGACACGG	300
3177	AGCAGAGG CUGAUGAG GCCGUUAGGC CGAA AGGCCUG	3080	CACGGCCU C CCUCUGCU	301
3181	GAGUAGCA CUGAUGAG GCCGUUAGGC CGAA AGGAGGC	3081	GCCUCCU C UUGGUACUC	302
3186	GGAUGGAG CUGAUGAG GCCGUUAGGC CGAA AGCAGAGG	3082	GCUCUUGCU A CUCCAUCC	303
3189	UCAGAUG CUGAUGAG GCCGUUAGGC CGAA AGUAGCAG	3083	CUGGUACU C CAUCCUGA	304
3193	GCUUUCAG CUGAUGAG GCCGUUAGGC CGAA AUGGAGUA	3084	UACUCCAU C CUGAAAGC	305
3219	CCCCCAGC CUGAUGAG GCCGUUAGGC CGAA ACAUCCCU	3085	AGGGAUGU C GCUGGGGG	306
3248	GGAGGGCA CUGAUGAG GCCGUUAGGC CGAA AGGGCUGG	3086	CCGGCCCU C UGCCCUCC	307
3255	CGGGCUGC CUGAUGAG GCCGUUAGGC CGAA AGGGCAGA	3087	UCUGCCCU C CGAGGCCG	308
3288	UGAGCAGG CUGAUGAG GCCGUUAGGC CGAA AUGCUUGG	3088	CCAAGCAU U CCUGCUCA	309
3289	UUGAGCAG CUGAUGAG GCCGUUAGGC CGAA AAUGCUUG	3089	CAAGCAUU C CUGCUCAA	310
3295	GUCAGCUU CUGAUGAG GCCGUUAGGC CGAA AGCAGGAA	3090	UUCCUGCU C AAGCUGAC	311
3305	ACGGUGUC CUGAUGAG GCCGUUAGGC CGAA AGUCACCU	3091	AGGUGACU C GACACCGU	312
3316	ACGUAGGU CUGAUGAG GCCGUUAGGC CGAA ACACCGUG	3092	CACGGUGU C ACCUACGU	313
3321	GUGGCAGG CUGAUGAG GCCGUUAGGC CGAA AGGUGACA	3093	UGUCACCU A CGUGCCAC	314
3331	GACCCCAG CUGAUGAG GCCGUUAGGC CGAA AGUGGCAG	3094	GUGCCAGG U CUGGGGUC	315
3339	CCCUGAGU CUGAUGAG GCCGUUAGGC CGAA ACCCCAGG	3095	CCUGGGGU C ACUCAGGA	316
3343	GCUGCCCU CUGAUGAG GCCGUUAGGC CGAA AGUGACCC	3096	GGGUCACU C AGGACAGC	317
3368	GAGCCUUC CUGAUGAG GCCGUUAGGC CGAA ACUCAGCU	3097	AGCUGAGU C GGAAGCUC	318
3376	GCCCCCGG CUGAUGAG GCCGUUAGGC CGAA AGCCUUCG	3098	CGGAAGCU C CCGGGGAC	319
3429	UGAAGCCU CUGAUGAG GCCGUUAGGC CGAA AGGGCAGU	3099	ACUGCCCU C AGACCUCA	320
3435	UGGCCCUG CUGAUGAG GCCGUUAGGC CGAA AGCCUGAG	3100	CUCAGACU U CAAGACCA	321
3436	AUGGCCCU CUGAUGAG GCCGUUAGGC CGAA AAGCCUGA	3101	UCAGACUU C AAGACCAU	322
3445	CAGUCCAG CUGAUGAG GCCGUUAGGC CGAA AUGGCCUU	3102	AAGACCAU C CUGGACUG	323
3503	CCCGCCGU CUGAUGAG GCCGUUAGGC CGAA ACAGGCCU	3103	AGGCCUGU C ACGCGGG	324
3514	GGGAGGUA CUGAUGAG GCCGUUAGGC CGAA AGCCCGGC	3104	GCCGGCCU C UACGUCCC	325

Table III

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3516	CUGGGACG CUGAUGAG GCCGUUAGGC CGAA AGAGCCCG	3105	CGGGCUCU A CGUCCCAG	326
3520	CUCCCUGG CUGAUGAG GCCGUUAGGC CGAA ACGUAGAG	3106	CUCUACGU C CCAGGGAG	327
3568	AGGCCUCA CUGAUGAG GCCGUUAGGC CGAA ACUCCCAG	3107	CUGGGAGU C UGAGGCCU	328
3587	CUGGGCCA CUGAUGAG GCCGUUAGGC CGAA ACACUCAC	3108	GUGAGUGU U UGGCCGAG	329
3588	CCUGGGCC CUGAUGAG GCCGUUAGGC CGAA AACACUCA	3109	UGAGUGUU U GGCCGAGG	330
3606	UUCAGCCG CUGAUGAG GCCGUUAGGC CGAA ACAUGCAG	3110	CUGCAUGU C CGGCUGAA	331
3615	CUCAGCCG CUGAUGAG GCCGUUAGGC CGAA ACACUCAG	3111	CUGAGUGU C CGGCUGAG	332
3648	CUUGGCUG CUGAUGAG GCCGUUAGGC CGAA ACACUGGC	3112	GUGAGUGU C CAGCCAAG	333
3667	GUGUGCUG CUGAUGAG GCCGUUAGGC CGAA ACACUCAG	3113	CUGAGUGU C CAGCACAC	334
3672	GAAGUGAA CUGAUGAG GCCGUUAGGC CGAA AGGGCAGG	3114	CCUGCCGU C UUCACUUC	335
3685	GGGAAGUG CUGAUGAG GCCGUUAGGC CGAA AGAGGGGA	3115	UCCCGUCU U CACUUCCC	336
3686	GGGAAGU CUGAUGAG GCCGUUAGGC CGAA AAGAGGGC	3116	GCCCGUCU C ACUUCCCC	337
3690	CUGUGGGG CUGAUGAG GCCGUUAGGC CGAA AGUGAAGA	3117	UCUUCACU U CCCCACAG	338
3691	CCUGUGGG CUGAUGAG GCCGUUAGGC CGAA AAGUGAAG	3118	CUCUUCACU C CCCACAGG	339
3718	GUGGAGCC CUGAUGAG GCCGUUAGGC CGAA AGCGCCAG	3119	CUGGCGCU C GGCUCCAC	340
3719	CUGGGGUG CUGAUGAG GCCGUUAGGC CGAA AGCCGAGG	3120	GCUCGGCU C CACCCCAG	341
3720	GUGAGGAA CUGAUGAG GCCGUUAGGC CGAA AGCUGGCC	3121	GGCCAGCU U UUCCUCAC	342
3721	GGUGAGGA CUGAUGAG GCCGUUAGGC CGAA AAGCUGGC	3122	GCCAGCUU U UCCUCACC	343
3722	UGGUGAGG CUGAUGAG GCCGUUAGGC CGAA AAAGCUGG	3123	CAGCUUUU U CCUCACCA	344
3723	CUGGUGAG CUGAUGAG GCCGUUAGGC CGAA AAAAGCUG	3124	CAGCUUUU C CUCACCAG	345
3726	CUCCUGGU CUGAUGAG GCCGUUAGGC CGAA AGGAAAAG	3125	CUUUUCCU C ACCAGGAG	346
3751	GGGAGUGG CUGAUGAG GCCGUUAGGC CGAA AGCCUGGC	3126	GCCCGGCU U CCACUCCC	347
3757	GGGGAGUG CUGAUGAG GCCGUUAGGC CGAA AAGCCCGG	3127	CCCGGCUU C CACUCCCC	348
3758	UAUGUGGG CUGAUGAG GCCGUUAGGC CGAA AGUGGAAG	3128	CUUCCACU C CCCACAUA	349
3766	ACUAUUCC CUGAUGAG GCCGUUAGGC CGAA AUGUGGGG	3129	CCCCACAU A GGAAUAGU	350
3771	GGAUGGAC CUGAUGAG GCCGUUAGGC CGAA AUUCCUAU	3130	AUAGGAAU A GUCCAUCC	351
3777	UGGGAUGG CUGAUGAG GCCGUUAGGC CGAA ACUAUCC	3131	GGAAUAGU C CAUCCCCA	352
3779	AAUCUGGG CUGAUGAG GCCGUUAGGC CGAA AUGGAUUA	3132	UAGUCCAU C CCCAGAUU	353
3787	CAAUGGCG CUGAUGAG GCCGUUAGGC CGAA AUCUGGGG	3133	CCCCAGAU U CGGCAUGG	354
3788	ACAAUGGC CUGAUGAG GCCGUUAGGC CGAA AAUCUGGG	3134	CCCAGAUU C GGCAUGGU	355
3794	GGGUGAAC CUGAUGAG GCCGUUAGGC CGAA AUGGCGAA	3135	UUCGGCAU U GUUCACCC	356
3797	GAGGGGUG CUGAUGAG GCCGUUAGGC CGAA ACAAUGGC	3136	GCCAUGUG U CACCCCCC	357
3798	CGAGGGGU CUGAUGAG GCCGUUAGGC CGAA AACAAUGG	3137	CCAUGUGU C ACCCCUGG	358
3805	GGGAGGGC CUGAUGAG GCCGUUAGGC CGAA AGGGGUGA	3138	UCACCCCU C GCCCUGCC	359
3815	AGGCAAAG CUGAUGAG GCCGUUAGGC CGAA AGGGCAGG	3139	CCUGCCCU C CUUUGCCU	360
3817	GGAAGGCA CUGAUGAG GCCGUUAGGC CGAA AGGAGGGC	3140	GCCCUCCU U UGCCUUCC	361
3820	UGGAAGGC CUGAUGAG GCCGUUAGGC CGAA AAGGAGGG	3141	CCCUCCUU U GCCUUCCA	362
3825	GGGGCGGG CUGAUGAG GCCGUUAGGC CGAA AGCCAAAG	3142	CUUUGCCU U CCACCCCC	363
3826	UGGGGCGG CUGAUGAG GCCGUUAGGC CGAA AAGGCAAA	3143	GUUUGCCU U CCACCCCA	364
3839	UCCACCUG CUGAUGAG GCCGUUAGGC CGAA AUGGUGGG	3144	CCCAGGAU C CAGGUGGA	365
3873	AAUCCCCA CUGAUGAG GCCGUUAGGC CGAA AGUUCCCA	3145	UGGGAGCU C GGGAAUU	366
3881	UCACCCCA CUGAUGAG GCCGUUAGGC CGAA AUGCCCAG	3146	CUGGGAAU U UGGAGUGA	367
3882	GCCACCUC CUGAUGAG GCCGUUAGGC CGAA AAUUCCCA	3147	UGGGAAUU U GGAGUGAC	368
3907	CGCCUGUG CUGAUGAG GCCGUUAGGC CGAA ACAGGGCA	3148	GGCCUGU A CACAGGCG	369
3940	CCCACAGG CUGAUGAG GCCGUUAGGC CGAA ACCCCCAU	3149	AUGGGGGU C CCCUGUGGG	370
3950	CCCAAUUU CUGAUGAG GCCGUUAGGC CGAA ACCCACAG	3150	CCGUGGGU C AAAUGGGG	371
3955	CUCCCCCC CUGAUGAG GCCGUUAGGC CGAA AUUUGACC	3151	GGUCAAAU U GGGGGGAG	372

Table III

3977	CAGUAUUU CUGAUGAG GCCGUUAGGC CGAA ACUCCCAC	3152	GUGGGAGU A AAAUACUG	373				
3982	AUAUUCAG CUGAUGAG GCCGUUAGGC CGAA AUUJUACU	3153	AGUAAAAU A CUGAAUAU	374				
3989	AACUCAUA CUGAUGAG GCCGUUAGGC CGAA AUUCAGUA	3154	UACUGAAU A UAUGAGUU	375				
3991	AAAACUCA CUGAUGAG GCCGUUAGGC CGAA AUAJUCAG	3155	CUGAAUAU A UGAGUUUU	376				
3997	AACUGAAA CUGAUGAG GCCGUUAGGC CGAA ACUCAJAU	3156	AUAUGAGU U JUUCAGUU	377				
3998	AAACUGAA CUGAUGAG GCCGUUAGGC CGAA AACUCAUA	3157	UAUGAGUU U JUCAGUUU	378				
3999	AAAACUGA CUGAUGAG GCCGUUAGGC CGAA AAACUCAU	3158	AUGAGUUU U JCAGUUUU	379				
4000	CAAAACUG CUGAUGAG GCCGUUAGGC CGAA AAAACUCA	3159	UGAGJUUU U CAGUUUUG	380				
4001	UCAAAACU CUGAUGAG GCCGUUAGGC CGAA AAAAACUC	3160	GAGUJUUU C AGUUUUGA	381				
4005	UUUUUCAA CUGAUGAG GCCGUUAGGC CGAA ACUGAAAA	3161	UUUUCAGU U JUGAAAAA	382				
4006	UUUUUUCA CUGAUGAG GCCGUUAGGC CGAA AACUGAAA	3162	UUUCAGUU U UGAAAAAA	383				
4007	UUUUUUUC CUGAUGAG GCCGUUAGGC CGAA AAACUGAA	3163	UUCAGUUU U GAAAAAAA	384				

Stem Length = 8 . Core Sequence = CUGAUGAG GCCGUUAGGC CGAA

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp); Nakamura *et al.*, Science 277 (5328), 955-959 (1997)

Table IV

Table IV: Human telomerase reverse transcriptase (TERT) NCH Ribozyme and Target Sequence

nt. Position	Ribozyme Sequence	Seq ID Nos	Substrate Sequence	Seq ID Nos
14	GCGCAGCA CUGAUGAG GCCGUUAGGC CGAA IACGCAGC	385	GCUGCGUC C UGCUGCGC	3164
15	UGCGCAGC CUGAUGAG GCCGUUAGGC CGAA IGACGCAG	386	CUGCGUCC U GCUGCGCA	3165
18	ACGUGCGC CUGAUGAG GCCGUUAGGC CGAA ICAGGACG	387	CGUCCUGC U GCGCACGU	3166
23	UUCCCACG CUGAUGAG GCCGUUAGGC CGAA ICGCAGCA	388	UGCUGCGC A CGUGGGAA	3167
34	GGGGCCAG CUGAUGAG GCCGUUAGGC CGAA ICUUCCCA	389	UGGGAAGC C CUGGCCCC	3168
35	CGGGGCCA CUGAUGAG GCCGUUAGGC CGAA IGCUUCCC	390	GGGAAGCC C UGGCCCCG	3169
36	CCGGGGCC CUGAUGAG GCCGUUAGGC CGAA IGGCUUCC	391	GGAAGCCC U GGCCCCGG	3170
40	GUGGCCCG CUGAUGAG GCCGUUAGGC CGAA ICCAGGGC	392	GCCCUGGC C CCGGCCAC	3171
41	GGUGGCCC CUGAUGAG GCCGUUAGGC CGAA IGCCAGGG	393	CCCUGGCC C CGGCCACC	3172
42	GGGUGGCC CUGAUGAG GCCGUUAGGC CGAA IGGCCAGG	394	CCUGGCCC C GGCCACCC	3173
44	GCGGGGGU CUGAUGAG GCCGUUAGGC CGAA ICCGGGGC	395	GCCCCGGC C ACCCCCGC	3174
47	CGCGGGGG CUGAUGAG GCCGUUAGGC CGAA IGCCGGGG	396	CCCCGGCC A CCCCCGCG	3175
49	AUCGCGGG CUGAUGAG GCCGUUAGGC CGAA IUGCCGGG	397	CCGGCCAC C CCCGCGAU	3176
50	CAUCGCGG CUGAUGAG GCCGUUAGGC CGAA IGUGCCGG	398	CGGCCACC C CCGCGAUG	3177
51	GCAUCGCG CUGAUGAG GCCGUUAGGC CGAA IGGUGGCG	399	GGCCACCC C CGCGAUGC	3178
53	GGCAUCGC CUGAUGAG GCCGUUAGGC CGAA IGGGUGCG	400	GCCACCCC C GCGAUGCC	3179
56	GAGCGCGG CUGAUGAG GCCGUUAGGC CGAA ICAUCGCG	401	CGCGAUGC C GCGCGCUC	3180
67	CAGCGGGG CUGAUGAG GCCGUUAGGC CGAA ICGCGCGG	402	CCGCGCGC U CCCCGCUG	3181
69	GGCAGCGG CUGAUGAG GCCGUUAGGC CGAA IAGCGCGC	403	GCGCGCUC C CCGCGUGCC	3182
70	CGGCAGCG CUGAUGAG GCCGUUAGGC CGAA IGAGCGCG	404	CGCGCUCC C CGCUGCCG	3183
71	CCGGCAGC CUGAUGAG GCCGUUAGGC CGAA IGGAGCGC	405	GCGCUCCC C GCUGCCGA	3184
74	GGCUCCGG CUGAUGAG GCCGUUAGGC CGAA IGGGGGAG	406	CUCCCCGC U GCCGAGCC	3185
77	CAGGCCUC CUGAUGAG GCCGUUAGGC CGAA ICAGCGGG	407	CCCGCUGC C GAGCCGUG	3186
82	GAGCGCAC CUGAUGAG GCCGUUAGGC CGAA ICUCGGCA	408	UGCCGAGC C GUGCGCUC	3187
89	CAGCAGGG CUGAUGAG GCCGUUAGGC CGAA ICGCACGG	409	CCGUGCGC U CCCUGCUG	3188
91	CGCAGCAG CUGAUGAG GCCGUUAGGC CGAA IAGCGCAC	410	GUGCGCUC C CUGCUGCG	3189
92	GCGCAGCA CUGAUGAG GCCGUUAGGC CGAA IGAGCGCA	411	UGCGCUCC C UGCUGCGC	3190
93	UGCGCAGC CUGAUGAG GCCGUUAGGC CGAA IGGAGCGC	412	GCGCUCCC U GCUGCGCA	3191
96	GGCUGCGC CUGAUGAG GCCGUUAGGC CGAA ICAGGGAG	413	CUCCCUGC U GCGCAGCC	3192
101	GUAGUGGC CUGAUGAG GCCGUUAGGC CGAA ICGCAGCA	414	UGCUGCGC A GCCACUAC	3193
104	GCGGUAGU CUGAUGAG GCCGUUAGGC CGAA ICUGCGCA	415	UGCGCAGC C ACUACCGC	3194
105	CGCGGUAG CUGAUGAG GCCGUUAGGC CGAA IGCUGCGC	416	GCGCAGCC A CUACCGCG	3195
107	CCGCGGGU CUGAUGAG GCCGUUAGGC CGAA ICGGCGGC	417	GCAGCCAC U ACCGCGAG	3196
110	CACCCGCG CUGAUGAG GCCGUUAGGC CGAA ICAGCGGC	418	GCCACUAC C GCGAGGUG	3197
120	CCAGCGGC CUGAUGAG GCCGUUAGGC CGAA ICACCCCG	419	CGAGGCGC U GCCGCUGG	3198
123	UGGCCAGC CUGAUGAG GCCGUUAGGC CGAA ICAGCACC	420	GGUGCUGC C GCUGGCCA	3199
116	ACGUCGCC CUGAUGAG GCCGUUAGGC CGAA ICGGCAGC	421	GCUGCCGC U GGCCACGU	3200
130	ACGAACGU CUGAUGAG GCCGUUAGGC CGAA ICCAGCGG	422	CCGCUGGC C ACGUUCGU	3201
131	CACGAACG CUGAUGAG GCCGUUAGGC CGAA IGCCAGCG	423	CGCUGGCC A CGUUCGUG	3202
146	GGGCCCCA CUGAUGAG GCCGUUAGGC CGAA ICGCCGGA	424	UGGGGCGC C CGGGGCCC	3203
147	GGGGCCCC CUGAUGAG GCCGUUAGGC CGAA IGCGCCGG	425	GCGGGCGC U GGGGCCCC	3204
153	AGCCCUGG CUGAUGAG GCCGUUAGGC CGAA ICCCCAGG	426	CCUGGGGC C CCAGGGCU	3205
154	CAGCCCUG CUGAUGAG GCCGUUAGGC CGAA IGCCCCAG	427	CUGGGGCC C CAGGGCUG	3206

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155	CCAGCCCU CUGAUGAG GCCGUUAGGC CGAA IGGCCCCA	428	UGGGGCCC C AGGGCUGG	3207
156	GCCAGCCC CUGAUGAG GCCGUUAGGC CGAA IGGGCCCC	429	GGGGCCCC A GGGCUGGC	3208
161	CAGCCGCC CUGAUGAG GCCGUUAGGC CGAA ICCCUGGG	420	CCCAGGGC U GGCGGCUG	3209
168	GCUGCACC CUGAUGAG GCCGUUAGGC CGAA ICCGCCAG	431	CUGGCGGC U GGUGCAGC	3210
174	CCCCGCGC CUGAUGAG GCCGUUAGGC CGAA ICACCAGC	432	GCUGGUGC A GCGCGGGG	3211
185	AGCCGCCG CUGAUGAG GCCGUUAGGC CGAA IUCCCGGU	433	GCGGGGAC C CGGCGGCU	3212
186	AAGCCGCC CUGAUGAG GCCGUUAGGC CGAA IGUCCCGG	434	CGGGGACC C GGCGGCUU	3213
193	GCGCGGAA CUGAUGAG GCCGUUAGGC CGAA ICCGCCGG	435	CCGGCGGC U UUCCGCGC	3214
197	CAGCGCGC CUGAUGAG GCCGUUAGGC CGAA IAAAGCCG	436	CGGCUUUC C GCGCGCUG	3215
204	GGCCACC CUGAUGAG GCCGUUAGGC CGAA ICCGCGCG	437	CGCGCGGC U GGUGGCCC	3216
211	AGGCACUG CUGAUGAG GCCGUUAGGC CGAA ICCCACAG	438	CUGGUGGC C CAGUGCCU	3217
212	CAGGCACU CUGAUGAG GCCGUUAGGC CGAA IGCCACCA	439	UGGUGGCC C AGUGCCUG	3218
213	CCAGGCAC CUGAUGAG GCCGUUAGGC CGAA IGCCCACC	440	GGUGGCCC A GUGCCUGG	3219
218	GCACACCA CUGAUGAG GCCGUUAGGC CGAA ICACUGGG	441	CCCAGUGC C UGGUGUGC	3220
219	CGCACACC CUGAUGAG GCCGUUAGGC CGAA IGCACUGG	442	CCAGUGCC U GGUGUGCG	3221
231	CGUCCCAG CUGAUGAG GCCGUUAGGC CGAA ICACCCAC	443	GUGGGUGC C CUGGGACG	3222
232	GCGUCCCA CUGAUGAG GCCGUUAGGC CGAA IGCACCCA	444	UGGGUGCC C UGGGACGC	3223
233	UGCGUCCC CUGAUGAG GCCGUUAGGC CGAA IGGCACCC	445	GCGUGCCC U GGGACGCA	3224
242	GGCGGCCG CUGAUGAG GCCGUUAGGC CGAA ICGUCCCA	446	UGGGACGC A CGGCCGCC	3225
246	CGGGGGCG CUGAUGAG GCCGUUAGGC CGAA ICCGUGCG	447	CGCACGGC C GCCCCCG	3226
249	CGGCGGGG CUGAUGAG GCCGUUAGGC CGAA IGGCCCGU	448	ACGGCCGC C CCCCGCCG	3227
250	GCGGCGGG CUGAUGAG GCCGUUAGGC CGAA IGCGGCCG	449	CGGCCGCC C CCCGCCGC	3228
251	GGCGGCGG CUGAUGAG GCCGUUAGGC CGAA IGGCGGCC	450	GGCCGCCC C CCGCCGCC	3229
252	GGGCGGCG CUGAUGAG GCCGUUAGGC CGAA IGGGCGGC	451	GCCGCCCC C CGCCGCCC	3230
257	GGGCGGGC CUGAUGAG GCCGUUAGGC CGAA IGGGGCGG	452	CCGCCCCC C GCCGCCCC	3231
258	GAGGGGGC CUGAUGAG GCCGUUAGGC CGAA ICGGGGCG	453	CCCCCGCC C GCCCCGUC	3232
259	AAGGAGGG CUGAUGAG GCCGUUAGGC CGAA ICGGGGCG	454	CCCCGCCC C CGCCUCUU	3233
260	GAAGGAGG CUGAUGAG GCCGUUAGGC CGAA ICGGGCGG	455	CCGCCGCC C CGUCCUUC	3234
261	GGAAGGAG CUGAUGAG GCCGUUAGGC CGAA IGGGGCGG	456	CGCCGCCC C CUCCUUCC	3235
262	CGGAAGGA CUGAUGAG GCCGUUAGGC CGAA IGGGGCGC	457	GCCGCCCC C UCCUUCCG	3236
263	GCGGAAGG CUGAUGAG GCCGUUAGGC CGAA IGGGGCGG	458	CCGCCCCC U CCUUCCGC	3237
265	UGGCGGAA CUGAUGAG GCCGUUAGGC CGAA IAGGGGCG	459	GCGCCCUC C UUCCGCCA	3238
266	CUGGCGGA CUGAUGAG GCCGUUAGGC CGAA IGAGGGGG	460	CCGCCCUC U UCCGCCAG	3239
269	CACCUGGC CUGAUGAG GCCGUUAGGC CGAA IAAGGAGG	461	CCUCCUUC C GCCAGGUG	3240
272	GGACACCU CUGAUGAG GCCGUUAGGC CGAA ICGGAAGG	462	CCUUCCGC C AGGUGUCC	3241
273	AGGACACC CUGAUGAG GCCGUUAGGC CGAA IGCGGAAG	463	CUUCCGCC A GGUGUCCU	3242
270	UUGAGGCA CUGAUGAG GCCGUUAGGC CGAA IACACCUG	464	CAGGUGUC C UGCCUGAA	3243
281	CUUCAGGC CUGAUGAG GCCGUUAGGC CGAA IGACACCU	465	AGGUGUCC U GCCUGAAG	3244
284	CUGCUUCA CUGAUGAG GCCGUUAGGC CGAA ICAGGACA	466	UGCCUGCC U UGAAGGAG	3245
285	GCUGCUUC CUGAUGAG GCCGUUAGGC CGAA IGCAGGAC	467	GUCCUGCC U GAAGGAGC	3246
294	GGGCCACC CUGAUGAG GCCGUUAGGC CGAA ICUGCUUC	468	GAAGGAGC U GGUGGCCC	3247
301	AGGCACUG CUGAUGAG GCCGUUAGGC CGAA ICCACCAG	469	CCGGCGGC C CCAGUGCU	3248
302	CAGCACUG CUGAUGAG GCCGUUAGGC CGAA IGCCACCA	470	UGGCGGCC C GAGGGCUG	3249
309	GCCUCUGC CUGAUGAG GCCGUUAGGC CGAA ICACUCGG	471	CCGAGGGC U GCAGAGGC	3250
312	ACAGCCUC CUGAUGAG GCCGUUAGGC CGAA ICAGCACU	472	AGUGCUGC A GAGGCUGU	3251
318	GCUCGCAG CUGAUGAG GCCGUUAGGC CGAA ICCUCUGC	473	GCAGAGGC U GCGCGAGC	3252
345	CGAAGGCC CUGAUGAG GCCGUUAGGC CGAA ICACGUUC	474	GAACGUGC U GGCCUUCG	3253

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349	AAGCCGAA CUGAUGAG GCCGUUAGGC CGAA ICCAGCAC	475	GUGCUGGC C UUCGGCUU	3254
350	GAAGCCGA CUGAUGAG GCCGUUAGGC CGAA IGCCAGCA	476	UGCUGGCC U UCGGCUUC	3255
356	CAGCGCGA CUGAUGAG GCCGUUAGGC CGAA IGCGAAGG	477	CCUUCGGC U UCGCGCUG	3256
363	CGUCCAGC CUGAUGAG GCCGUUAGGC CGAA ICGCGAAG	478	CUUCGCGC U GCUGGACG	3257
366	CCCCGUCC CUGAUGAG GCCGUUAGGC CGAA ICAGCGCG	479	CGCCUGC U GGACGGGG	3258
376	CCCCCGCC CUGAUGAG GCCGUUAGGC CGAA ICCCCGUC	480	GACGGGGC C CGCGGGGG	3259
377	GCCCCCGC CUGAUGAG GCCGUUAGGC CGAA IGCCCCGU	481	ACGGGCC C GCGGGGGC	3260
386	CUCGGGG CUGAUGAG GCCGUUAGGC CGAA ICCCCGCG	482	GCGGGGC C CGCCCGAG	3261
387	CCUCGGGG CUGAUGAG GCCGUUAGGC CGAA IGCCCCCG	483	CGGGGCC C CGCCGAGG	3262
388	GCCUCGGG CUGAUGAG GCCGUUAGGC CGAA IGGCCCCC	484	GGGGCCC C CGCGAGGC	3263
389	GGCCUCGG CUGAUGAG GCCGUUAGGC CGAA IGGGCCCC	485	GGGCCCC C CGAGGCC	3264
390	AGGCCUCG CUGAUGAG GCCGUUAGGC CGAA IGGGGCCC	486	GGCCCCC C CGAGGCCU	3265
391	AAGGCCUC CUGAUGAG GCCGUUAGGC CGAA IGGGGGCC	487	GGCCCCC C GAGGCUU	3266
327	GUGGUGAA CUGAUGAG GCCGUUAGGC CGAA ICCUCGGG	488	CCCGAGGC C UUCACCAC	3267
328	GGUGGUGA CUGAUGAG GCCGUUAGGC CGAA IGCCUCGG	489	CCGAGGCC U UCACCAC	3268
401	GCUGGUGG CUGAUGAG GCCGUUAGGC CGAA IAAGGCCU	490	AGGCCUUC A CCACCAGC	3269
403	ACGCUGGU CUGAUGAG GCCGUUAGGC CGAA IUGAAGGC	491	GCCUUCAC C ACCAGCU	3270
404	CACGCUGG CUGAUGAG GCCGUUAGGC CGAA IGUGAAGG	492	CCUUCACC A CCAGCUG	3271
406	CGGCACGCU CUGAUGAG GCCGUUAGGC CGAA IUGUUGAA	493	UUCACCAC C AGCGUGC	3272
407	GCGGCACGC CUGAUGAG GCCGUUAGGC CGAA IGUGGUGA	494	UCACCACC A GCGUGCGC	3273
416	CAGGUAGC CUGAUGAG GCCGUUAGGC CGAA ICGCACGC	495	GCGUGCGC A GCUACCUG	3274
419	GGGCAGGU CUGAUGAG GCCGUUAGGC CGAA ICUGCGCA	496	UGCGCAGC U ACCUGCCC	3275
422	GUUGGGCA CUGAUGAG GCCGUUAGGC CGAA IUAGCUGC	497	GCAGCUAC C UGCCCAAC	3276
423	UGUUGGGC CUGAUGAG GCCGUUAGGC CGAA IGUAGCUG	498	CAGCUACC U GCCCAACA	3277
426	CCGUGUUG CUGAUGAG GCCGUUAGGC CGAA ICAGGUAG	499	CUACCUGC C CAACACGG	3278
427	ACCGUGUU CUGAUGAG GCCGUUAGGC CGAA IGCAGGUA	500	UACCUGCC C AACACGGU	3279
428	CACCGUGU CUGAUGAG GCCGUUAGGC CGAA IGGCAGGU	501	ACCUGCCC A ACACGGUG	3280
431	GGUCACCG CUGAUGAG GCCGUUAGGC CGAA IUUGGGCA	502	UGCCCAAC A CGGUGACC	3281
434	AGUGCGUC CUGAUGAG GCCGUUAGGC CGAA IUCACCGU	503	ACGGUGAC C GACGCACU	3282
445	CCCGCAG CUGAUGAG GCCGUUAGGC CGAA ICGUCGGU	504	ACGGACGC A CUGCGGGG	3283
447	UGCCCGC CUGAUGAG GCCGUUAGGC CGAA IUGCGUCG	505	CGACGCAC U GCGGGGA	3284
471	GCAGCAGC CUGAUGAG GCCGUUAGGC CGAA ICCCCCAC	506	GUGGGGC U GCUGCUGC	3285
474	GGCGCAGC CUGAUGAG GCCGUUAGGC CGAA ICAGCCCC	507	GGGCUGC U GCUGCGCC	3286
477	CGCGGCGC CUGAUGAG GCCGUUAGGC CGAA ICAGCAGC	508	GCUGCUGC U GCGCGCG	3287
483	GCCCACGC CUGAUGAG GCCGUUAGGC CGAA ICGCAGCA	509	UGCUGCGC C GCGUGGC	3288
501	GGUGAAGC CUGAUGAG GCCGUUAGGC CGAA ICACGGCG	510	CGACGUGC U GGUUCACC	3289
507	CCAGCAGG CUGAUGAG GCCGUUAGGC CGAA IAACCAGC	511	GCUGGUUC A CCUGCUGG	3290
509	UGCCAGCA CUGAUGAG GCCGUUAGGC CGAA IUGAACCA	512	UGGCUCAC C UGCGGGCA	3291
510	GUGCCAGC CUGAUGAG GCCGUUAGGC CGAA IGUGAACC	513	GGUGCACC U GCUGGCAC	3292
513	AGCGUGCC CUGAUGAG GCCGUUAGGC CGAA ICAGGUGA	514	UCACCUGC U GGCAGGCU	3293
517	GCGCAGCG CUGAUGAG GCCGUUAGGC CGAA ICCAGCAG	515	CCGCUGGC A CGCUGCGC	3294
521	GAGCGCGC CUGAUGAG GCCGUUAGGC CGAA ICGCGGCA	516	CGGCACGC U GCGCGCCC	3295
528	GCACAAAG CUGAUGAG GCCGUUAGGC CGAA ICGCGCAG	517	CCGCGCGC U CUUGCGGC	3296
530	CAGCACAA CUGAUGAG GCCGUUAGGC CGAA IAGCGCGC	518	GCGCGCCC U CUGCGCUG	3297
537	GAGCCACC CUGAUGAG GCCGUUAGGC CGAA ICACAAAG	519	CUUCUGCC U GGUGGCUC	3298
544	CAGCUGGC CUGAUGAG GCCGUUAGGC CGAA ICCACCAG	520	CCGCUGGC U CCCAGCUG	3299
546	CGCAGCUG CUGAUGAG GCCGUUAGGC CGAA IAGCCACC	521	GGUGGCUC C CAGCUGCG	3300

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547	GCGCAGCU	CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCCAC	522	GUGGCUCC C AGCUGCGC	3301
548	GGCGCAGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGCCA	523	UGGCUCCC A GCUGCGCC	3302
551	GUAGGCGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGGAG	524	CUCCCAGC U GCGCCUAC	3303
556	ACCUGGUA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAGCU	525	AGCUGCGC C UACCAGGU	3304
557	CACCUGGU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCAGC	526	GCUGCGCC U ACCAGGUG	3305
560	GCACACCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUAGGCGC	527	GCGCCUAC C AGGUGUGC	3306
561	CGCACACC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUAGGCG	528	CGCCUACC A GGUGUGCG	3307
573	ACAGCGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCGCAC	529	GUGCGGGC C GCGCGCGU	3308
576	GGUACAGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCGCG	530	CGGGCGGC C GCUGUACC	3309
579	GCUGGUAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCGGC	531	GCCGCGGC U GUACCAGC	3310
584	GCCGAGCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUACAGCG	532	CGCUGUAC C AGCUCGGC	3311
585	CGCCGAGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUACAGC	533	GCUGUACC A GCUCGGCG	3312
588	CAGCGCCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGUAC	534	GUACCAGC U CGGCGCUG	3313
595	UGAGUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGCCGAG	535	CUGGCGC U GCCACUCA	3314
598	GCCUGAGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCGCC	536	GGCGUGGC C ACUCAGGC	3315
599	GGCCUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGCGC	537	GCGCUGCC A CUCAGGCC	3316
601	CGGGCCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCAGC	538	GCUGCCAC U CAGGCCCG	3317
602	GCCGGGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGGCA	539	UGCCACUC A GGCCCGGC	3318
607	GGGGCCCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGAGU	540	ACUCAGGC C CGGCCCCC	3319
608	CGGGGGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUGAG	541	CUCAGGCC C GGCCCCCG	3320
612	GUGGCGGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGGCC	542	GGCCCGGC C CCGGCCAC	3321
613	UGUGGCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGGGC	543	GCCCGGCC C CGGCCACA	3322
614	GUGUGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCGGG	544	CCCGGCCC C GGCCACAC	3323
615	CGUGUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCCGG	545	CCGGCCCC G GCCACACG	3324
618	UAGCGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGGCC	546	GCCCCGGC C ACACGCUA	3325
619	CUAGCGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGGGG	547	CCCCGGCC A CACGCUAG	3326
621	CACUAGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCGGGG	548	CCCGGCCAC G CGCUAGUG	3327
625	GGUCCACU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGUGUGG	549	CCACACGC U AGUGGACC	3328
633	GCCUUCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCACUA	550	UAGUGGAC C CCGAAGGC	3329
634	CGCCUUCG	CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCACU	551	AGUGGACC C CGAAGGCG	3330
635	ACGCCUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCCAC	552	GUGGACCC C GAAGGCGU	3331
645	CGCAUCCC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCCUU	553	AAGGCGUC U GGGAUGCG	3332
661	UGGUUCCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCGUUC	554	GAACGGGC U GGGAACCA	3333
662	AUGGUUCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCCGUU	555	AACGGGCC U GGAACCAU	3334
663	GAUGGUAU	CUGAUGAG	GCCGUUAGGC	CGAA	IUUCCAGG	556	CCCGGAAC C AUAGCGUC	3335
665	UGAUGGUA	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCCAG	557	CUGGAACC A UAGCGUCA	3336
670	GGCCUUCC	CUGAUGAG	GCCGUUAGGC	CGAA	IACGCUAU	558	AUAGCGUC A GGGAGGCC	3337
685	GGGACCCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCCCCU	559	AGGGAGGC C GGGGUCCC	3338
592	GCCCAGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IACCCCGG	560	CCGGGGUC C CCCUGGGC	3339
593	GGCCCAGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGACCCCG	561	CGGGGUCC C CCUGGGCC	3340
594	AGGCCCAG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGACCCC	562	GGGGUCCC C CUGGGCCU	3341
595	CAGGCCCA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGACCC	563	GGGUCCCC C UGGGCCUG	3342
696	GCAGGCCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGACCC	564	GGUCCCCC U GGGCCUGC	3343
701	GGCUGGCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGGG	565	CCCUGGGC C UGGCAGCC	3344
703	GGGCUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCCAGG	566	CCCUGGGCC U GGCAGCCC	3345
705	CCGGGGCU	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCCCC	567	GGCCCGGC C AGCCCGGG	3346
706	CCCGGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGCCC	568	GGCCUGCC A GCCCGGG	3347

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709	GCACCCGG CUGAUGAG GCCGUUAGGC CGAA ICUGGCAG	569	CUGCCAGC C CCGGGUGC	3348
710	CGCACCCG CUGAUGAG GCCGUUAGGC CGAA IGCUGGCA	570	UGCCAGCC C CGGGUGCG	3349
711	UCGCACCC CUGAUGAG GCCGUUAGGC CGAA IGGCUGGC	571	GCCAGCCC C GGGUGCGA	3350
734	GCUGGCAC CUGAUGAG GCCGUUAGGC CGAA ICCCCGC	572	GCGGGGGC A GUGCCAGC	3351
739	CUUCGGCU CUGAUGAG GCCGUUAGGC CGAA ICACUGC	573	GGCAGUGC C AGCCGAAG	3352
740	ACUUCGGC CUGAUGAG GCCGUUAGGC CGAA IGCACUGC	574	GCAGUGCC A GCCGAAGU	3353
743	CAGACUUC CUGAUGAG GCCGUUAGGC CGAA ICUGGCAC	575	GUGCCAGC C GAAGUCUG	3354
750	GCAACGGC CUGAUGAG GCCGUUAGGC CGAA IACUUCGG	576	CCGAAGUC U GCCGUUGC	3355
753	UGGGCAAC CUGAUGAG GCCGUUAGGC CGAA IGAGACUU	577	AAGUCUGC C GUUGCCCA	3356
759	GCCUCUUG CUGAUGAG GCCGUUAGGC CGAA ICAACGGC	578	GCCGUUGC C CAAGAGGC	3357
760	GGCUCUUU CUGAUGAG GCCGUUAGGC CGAA IGCAACGG	579	CCGUUGCC C AAGAGGCC	3358
761	GGGCUCUU CUGAUGAG GCCGUUAGGC CGAA IGGCAACG	580	CGUUGCCC A AGAGGCCC	3359
768	CAGGCUUG CUGAUGAG GCCGUUAGGC CGAA ICCUCUUG	581	CAAGAGGC C CAGGCGUG	3360
769	CCAGGCUU CUGAUGAG GCCGUUAGGC CGAA IGCCUCUU	582	AAGAGGCC C AGGCGUGG	3361
770	GCCAGGCU CUGAUGAG GCCGUUAGGC CGAA IGGCCUCU	583	AGAGGCCC A GGCGUGGC	3362
781	UCAGGGC CUGAUGAG GCCGUUAGGC CGAA ICGCCACC	584	CGUGGCC U GGCCCUGA	3363
784	GGCUCAGG CUGAUGAG GCCGUUAGGC CGAA ICAGGCCC	585	GGGCUGC C CCUGAGCC	3364
785	CGGCUCAG CUGAUGAG GCCGUUAGGC CGAA IGCAGGCC	586	GGGCUGCC C CUGAGCCG	3365
786	CCGGCUCA CUGAUGAG GCCGUUAGGC CGAA IGGCAGGC	587	CGGCUGCC C UGAGCCGG	3366
787	UCCGGCUC CUGAUGAG GCCGUUAGGC CGAA IGGGCAGG	588	GCUGCCCC U GAGCCGGA	3367
788	UUCCGGCUC CUGAUGAG GCCGUUAGGC CGAA ICUGAGG	589	CCUGAGCC C GGAGCGGA	3368
804	GCCCAACG CUGAUGAG GCCGUUAGGC CGAA ICGUCCGC	590	GCGGAGGC C CGUUGGGC	3369
805	UGCCCAAC CUGAUGAG GCCGUUAGGC CGAA IGCGUCCG	591	CGGAGGCC C GUUGGGCA	3370
813	AGGACCCC CUGAUGAG GCCGUUAGGC CGAA ICCCAACG	592	CGUUGGGC A GGGUCCU	3371
820	UGGGCCCA CUGAUGAG GCCGUUAGGC CGAA IACCCCUG	593	CAGGGUCC C UGGGCCCA	3372
821	GUGGGCCC CUGAUGAG GCCGUUAGGC CGAA IGACCCCU	594	AGGGUCC U GGGCCCAC	3373
825	CCGGGUG CUGAUGAG GCCGUUAGGC CGAA ICCCAGGA	595	UCCUGGGC C CACCCGGG	3374
827	GCCCGGGU CUGAUGAG GCCGUUAGGC CGAA IGCCCAGG	596	CCUGGGCC C ACCCGGGC	3375
828	UGCCCGGG CUGAUGAG GCCGUUAGGC CGAA IGCCCAG	597	CUGGGCCC A CCCGGGCA	3376
830	CCUGCCCG CUGAUGAG GCCGUUAGGC CGAA IUGGGCCC	598	GGGCCCAC C CGGGCAGG	3377
831	CCCUGCCC CUGAUGAG GCCGUUAGGC CGAA IGUGGGCC	599	GGCCCACC C GGGCAGGA	3378
836	ACGGGUCC CUGAUGAG GCCGUUAGGC CGAA ICCCGGGU	600	ACCCGGGC A GGACGCGU	3379
949	GGUCACUC CUGAUGAG GCCGUUAGGC CGAA ICCCACGC	601	GCGUGGAC C GAGUGACC	3380
957	GAAACCAC CUGAUGAG GCCGUUAGGC CGAA ICCCACUCG	602	CGAGUGAC C GUGGUUUC	3381
966	CACCACAC CUGAUGAG GCCGUUAGGC CGAA IAAACCAC	603	GCGGUUUC U GUGUGGUG	3382
977	CUGGCAGG CUGAUGAG GCCGUUAGGC CGAA IACACCAC	604	GCGGUGUC A CCCGCCAG	3383
979	GUCUGGCA CUGAUGAG GCCGUUAGGC CGAA IUGACACC	605	GGUGUCAC C UGCCAGAC	3384
980	GGUCUGGC CUGAUGAG GCCGUUAGGC CGAA IGUGACAC	606	GCGUCACC U GCCAGACC	3385
983	GCGGGUCU CUGAUGAG GCCGUUAGGC CGAA ICAGGGA	607	CCACCUGC C AGACCCGC	3386
984	GGCGGGUC CUGAUGAG GCCGUUAGGC CGAA IGCAGGCG	608	CACCUGCC A GACCCGCC	3387
988	CUUCGGCG CUGAUGAG GCCGUUAGGC CGAA ICCCGGCA	609	UGCCAGAC C CGCCGAAG	3388
989	CCUUCGGC CUGAUGAG GCCGUUAGGC CGAA IGCCCGGC	610	GCCAGACC C GCCGAAGA	3389
992	GCUUCUUC CUGAUGAG GCCGUUAGGC CGAA IGGGCUU	611	AGACCCGC C GAAGAAGC	3390
901	AAAGAGGU CUGAUGAG GCCGUUAGGC CGAA ICCCCUC	612	GAAGAAGC C ACCUCUUG	3391
902	CAAAGAGG CUGAUGAG GCCGUUAGGC CGAA IGCUCUU	613	AAGAAGCC A CCUCUUGG	3392
904	UCCAAAGA CUGAUGAG GCCGUUAGGC CGAA IUGGCUUC	614	GAAGCCAC C UCUUUGGA	3393
905	CUCCAAAG CUGAUGAG GCCGUUAGGC CGAA IGUGGCUU	615	AAGCCACC U CUUUGGAG	3394

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907	CCCUCCAA CUGAUGAG GCCGUUAGGC CGAA IAGGUGGC	616	GCCACCUC U UUGGAGGG	3395
921	UGCCAGAG CUGAUGAG GCCGUUAGGC CGAA ICGCACCC	617	GGGUGCGC U CUCUGGCA	3396
923	CGUGCCAG CUGAUGAG GCCGUUAGGC CGAA IAGCGCAC	618	GUGCGCUC U CUGGCACG	3397
925	CGCGUGCC CUGAUGAG GCCGUUAGGC CGAA IAGAGCGC	619	GCGUCUUC U GGCACGCG	3398
929	GUGGCGCG CUGAUGAG GCCGUUAGGC CGAA ICCAGAGA	620	UCUCUGGC A CGCGCCAC	3399
935	GUGGGAGU CUGAUGAG GCCGUUAGGC CGAA ICGCGUGC	621	GCAGCGGC C ACUCCCAC	3400
936	GGUGGGAG CUGAUGAG GCCGUUAGGC CGAA IGCGUGUG	622	CAGCGGCC A CUCCCACC	3401
938	UGGGUGGG CUGAUGAG GCCGUUAGGC CGAA IGGGUGCG	623	CGCGCCAC U CCCACCCA	3402
940	GAUGGGUG CUGAUGAG GCCGUUAGGC CGAA IAGUGGCG	624	CGCCACUC C CACCCAUC	3403
941	GGAUGGGU CUGAUGAG GCCGUUAGGC CGAA IGAGUGGC	625	GCCACUCC C ACCCAUCC	3404
942	CGGAUGGG CUGAUGAG GCCGUUAGGC CGAA IGGAGUGG	626	CCACUCCC A CCCAUCCG	3405
944	CACGGAUG CUGAUGAG GCCGUUAGGC CGAA IUGGAGU	627	ACUCCCAC C CAUCCGUG	3406
945	CCCACGGAU CUGAUGAG GCCGUUAGGC CGAA IGUGGGAG	628	UCCCACCC C AUCCGUGG	3407
916	CCCACGGA CUGAUGAG GCCGUUAGGC CGAA IGGUGGGA	629	UCCCACCC A UCCGUGGG	3408
949	CGGCCCAC CUGAUGAG GCCGUUAGGC CGAA IAUGGGUG	630	CACCCAUC C GUGGGCGG	3409
956	GUCGUGGC CUGAUGAG GCCGUUAGGC CGAA ICCCACGG	631	CCGUGGGC G GCCAGCAC	3410
959	GUCGUGCU CUGAUGAG GCCGUUAGGC CGAA IGGCCCCA	632	UGGGCGGC C AGCACCAC	3411
960	CGUCGUGC CUGAUGAG GCCGUUAGGC CGAA IGCGGCCC	633	GGGCGGCC A GCACCACG	3412
963	CCGCGUGG CUGAUGAG GCCGUUAGGC CGAA ICUGGCGG	634	CCGCCAGC A CCACGCGG	3413
965	GCCCGCGU CUGAUGAG GCCGUUAGGC CGAA IUGCUGGC	635	GCCAGCAC C ACGCGGGC	3414
966	GGCCCGCG CUGAUGAG GCCGUUAGGC CGAA IGUGCUGG	636	CCAGCACC A CGCGGGCC	3415
974	GGAUGGGG CUGAUGAG GCCGUUAGGC CGAA ICCCGCGU	637	ACGCGGGC C CCCCAUCC	3416
975	UGGAUGGG CUGAUGAG GCCGUUAGGC CGAA IGCCCGCG	638	CGCGGGCC C CCCAUCCA	3417
976	GUGGAUGG CUGAUGAG GCCGUUAGGC CGAA IGGCCCGC	639	GCGGGCCC C CCAUCCAC	3418
977	UGUGGAUG CUGAUGAG GCCGUUAGGC CGAA IGGGCCCG	640	CGGGCCCC C CAUCCACA	3419
978	AUGUGGAU CUGAUGAG GCCGUUAGGC CGAA IGGGGCCC	641	GGGCCCCC C AUCCACAU	3420
979	GAUGUGGA CUGAUGAG GCCGUUAGGC CGAA IGGGGGCC	642	GGCCCCCC A UCCACAUC	3421
982	CGCGAUGU CUGAUGAG GCCGUUAGGC CGAA IAUGGGGG	643	CCCCCAUC C ACAUCGCG	3422
983	CCGCGAUG CUGAUGAG GCCGUUAGGC CGAA IGAUGGGG	644	CCCCAUCC A CAUCGCGG	3423
985	GGCCGCGA CUGAUGAG GCCGUUAGGC CGAA IUGGAUGG	646	CCAUCCAC A UCGCGGCC	3424
993	GACGUGGU CUGAUGAG GCCGUUAGGC CGAA ICCGCGAU	646	AUCGCGGC C ACCACGUC	3425
994	GGACGUGG CUGAUGAG GCCGUUAGGC CGAA IGCCGCGA	647	UCGCGGCC A CCACGCC	3426
996	AGGACGUGU CUGAUGAG GCCGUUAGGC CGAA IUGGCCGC	648	GCGGCCAC C ACGUCCCU	3427
997	CAGGACGU CUGAUGAG GCCGUUAGGC CGAA IGUGGCCG	647	CGGCCACC A CGUCCCUG	3428
1002	CGCCCCAG CUGAUGAG GCCGUUAGGC CGAA IACGUGGU	65	ACCACGUC C CUGGGACA	3429
1003	GCGUCCCA CUGAUGAG GCCGUUAGGC CGAA IGACGUGG	651	CCACGUCC C UGGGACAC	3430
1004	CGCGUCCC CUGAUGAG GCCGUUAGGC CGAA IGGACGUG	652	CACGUCCC U GGGACACG	3431
1010	ACAAGGCG CUGAUGAG GCCGUUAGGC CGAA IGCCCAGG	654	CCCUGGGAC A CGCCUGU	3432
1014	GGGGACAA CUGAUGAG GCCGUUAGGC CGAA ICGCGUCC	654	GGACACGC C UGUCCCC	3433
1015	GGGGACA CUGAUGAG GCCGUUAGGC CGAA IGCGUGUC	655	GACACGCC U GUCCCCC	3434
1020	ACACCGGG CUGAUGAG GCCGUUAGGC CGAA IACAAGGC	656	GCCCUGUC C CCCGGCGU	3435
1021	UACACCGG CUGAUGAG GCCGUUAGGC CGAA IGACAAGG	657	CCCUGUCC C CCGGCGCA	3436
1022	GUACACCG CUGAUGAG GCCGUUAGGC CGAA IGGACAAG	658	CCCUGUCC C CGGCGCAC	3437
1023	CGUACACC CUGAUGAG GCCGUUAGGC CGAA IGGACAAA	659	UCCCCCGC C GGCGUACG	3438
1033	UUGGCCUC CUGAUGAG GCCGUUAGGC CGAA ICGUACAC	660	GUGCACGC C GAGACCAA	3439
1039	AAGUGCUU CUGAUGAG GCCGUUAGGC CGAA IGCUCGGC	661	GCCGAGAC C AAGCACUU	3440
1040	GAAGUGCU CUGAUGAG GCCGUUAGGC CGAA IGUCUCGG	662	CCGAGACC A AGCACUUC	3441

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1044	AGAGGAAG CUGAUGAG GCCGUUAGGC CGAA ICUUGGUC	663	GACCAAGC A CUUCCUCU	3442
1046	GUAGAGGA CUGAUGAG GCCGUUAGGC CGAA IUGCUUGG	664	CCAAGCAC U UCCUCUAC	3443
1049	GGAGUAGA CUGAUGAG GCCGUUAGGC CGAA IAAGUGCU	665	AGCACUUC C UCUACUCC	3444
1050	AGGAGUAG CUGAUGAG GCCGUUAGGC CGAA IGAAGUGC	666	GCACUUCC U CUACUCCU	3445
1052	UGAGGAGU CUGAUGAG GCCGUUAGGC CGAA IAGGAAGU	667	ACUUCCUC U ACUCCUCA	3446
1055	GCCUGAGG CUGAUGAG GCCGUUAGGC CGAA IUAGAGGA	668	UCCUCUAC U CCUCAGGC	3447
1057	UGGCCUGA CUGAUGAG GCCGUUAGGC CGAA IAGUAGAG	669	CUCUACUC C UCAGGCGA	3448
1058	GUGGCCUG CUGAUGAG GCCGUUAGGC CGAA IGAGUAGA	670	UCUACUCC U CAGGCGAC	3449
1066	UUGUGGCC CUGAUGAG GCCGUUAGGC CGAA IAGGAGUA	671	UACUCCUC A GGCGACAA	3450
1067	CUGCUCCU CUGAUGAG GCCGUUAGGC CGAA IUGGCCUG	672	CAGGCGAC A AGGAGCAG	3451
1074	GCCGCAGC CUGAUGAG GCCGUUAGGC CGAA ICUUCCUG	673	CAGGAGC A GCUGCGGC	3452
1077	AGGGCCGC CUGAUGAG GCCGUUAGGC CGAA ICUUGCUG	674	GGAGCAGC U GCGGCCUU	3453
1083	GGAAGGAG CUGAUGAG GCCGUUAGGC CGAA ICCGCAGC	675	GCUGCGGC C UUCUUGC	3454
1084	AGGAAGGA CUGAUGAG GCCGUUAGGC CGAA IGCCGCAG	676	CUGCGGCC U UCCUUGCU	3455
1086	UAGGAAGG CUGAUGAG GCCGUUAGGC CGAA IGGCCGCA	677	UGCGGCCU U CCUUGCUA	3456
1087	AGUAGGAA CUGAUGAG GCCGUUAGGC CGAA IAGGCCGC	678	CGGCCUUC C UUGCUACU	3457
1088	GAGUAGGA CUGAUGAG GCCGUUAGGC CGAA IAGGCCGC	679	GGCCUUCC U UGCUACUC	3458
1090	GCCUGAGUA CUGAUGAG GCCGUUAGGC CGAA IAAGGAGG	680	CCUUCCUUC C UACUCAGC	3459
1092	AGCCUGAGU CUGAUGAG GCCGUUAGGC CGAA IGAAGGAG	681	CUUCCUUC U ACUCAGCU	3460
1095	GAGAGCUG CUGAUGAG GCCGUUAGGC CGAA IUAGGAAG	682	CUUCCUAC U CAGCUCUC	3461
1097	CAGAGAGC CUGAUGAG GCCGUUAGGC CGAA IAGUAGGA	683	UCCUACUC A GCUCUCUG	3462
1100	ICUUGAGAG CUGAUGAG GCCGUUAGGC CGAA ICUGAGUA	684	UACUCAGC U CUCUGAGG	3463
1102	GGCUUGAG CUGAUGAG GCCGUUAGGC CGAA IAGCUGAG	685	CUCAGCUC U CUGAGGCC	3464
1104	UGGGCCUC CUGAUGAG GCCGUUAGGC CGAA IAGAGCUG	686	CAGCUCUC U GAGGCCA	3465
1110	UCAGGCUG CUGAUGAG GCCGUUAGGC CGAA ICCUCAGA	687	UCUGAGGC C CAGCCUGA	3466
1111	GUCAGGCU CUGAUGAG GCCGUUAGGC CGAA IGCCUCAG	688	CUGAGGCC C AGCCUGAC	3467
1112	AGUCAGGC CUGAUGAG GCCGUUAGGC CGAA IGGCCUCA	689	UGAGGCCC A GCCUGACU	3468
1115	GCCAGUCA CUGAUGAG GCCGUUAGGC CGAA ICUGGCCU	694	GGCCCAGC C UGACUGGC	3469
1118	CGCCAGUC CUGAUGAG GCCGUUAGGC CGAA IGCUGGGC	690	GCCCAGCC U GACUGGCG	3470
1120	CGGAGCCC CUGAUGAG GCCGUUAGGC CGAA IUCAGGCU	691	AGCCUGAC U GGCGCUCG	3471
1126	AGCCUCGG CUGAUGAG GCCGUUAGGC CGAA ICGGCAGU	692	ACUGGCGC U CGGAGGCU	3472
1134	UCUUCCAGG CUGAUGAG GCCGUUAGGC CGAA ICCUCGGA	694	CCGGAGGC U CGUGGAGA	3473
1144	AGAAAGAU CUGAUGAG GCCGUUAGGC CGAA IUCUUCCAC	695	GUGGAGAC C AUCUUCCU	3474
1145	CAGAAAGA CUGAUGAG GCCGUUAGGC CGAA IGUCUUCA	696	UGGAGACC A UCUUUCCUG	3475
1148	ACCCAGAA CUGAUGAG GCCGUUAGGC CGAA IAUGGUCU	697	AGACCAUC U UCCUGGGU	3476
1152	UGGAACCC CUGAUGAG GCCGUUAGGC CGAA IAAAGAUG	698	CAUCUUUC U GGUUCCA	3477
1159	CAGGGCCU CUGAUGAG GCCGUUAGGC CGAA IAACCCAG	699	CCGGUUC C AGGCCUG	3478
1160	CCAGGGCC CUGAUGAG GCCGUUAGGC CGAA IGAACCCA	700	UGGGUUCC A GGCCUGG	3479
1164	GCAUCCAG CUGAUGAG GCCGUUAGGC CGAA ICCUGGAA	701	UUCCAGGC C CUGGAUGC	3480
1165	GGCAUCCA CUGAUGAG GCCGUUAGGC CGAA IGCCUGGA	702	UCCAGGCC C UGGAUGCC	3481
1166	UGGCAUCC CUGAUGAG GCCGUUAGGC CGAA IGGCCUGG	703	CCAGGCCC U GGAUGCCA	3482
1173	GAGUCCCU CUGAUGAG GCCGUUAGGC CGAA ICAUCCAG	704	CUGGAUGC C AGGACUC	3483
1174	GGAGUCCC CUGAUGAG GCCGUUAGGC CGAA IGCAUCCA	705	UGGAUGCC A GGACUCC	3484
1180	CUGCGGGG CUGAUGAG GCCGUUAGGC CGAA ICCCCGGG	706	CCAGGGAC U CCCCGCAG	3485
1182	ACCUGCGG CUGAUGAG GCCGUUAGGC CGAA IAGUCCCU	707	AGGGACUC C CCGCAGGU	3486
1183	AACCUGCG CUGAUGAG GCCGUUAGGC CGAA IGAGUCCC	708	GGGACUCC C CGCAGGUU	3487
1184	CAACCUGC CUGAUGAG GCCGUUAGGC CGAA IGGAGUCC	709	GGACUCCC C CGCAGGUUG	3488

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1187	GGGCAACC CUGAUGAG GCCGUUAGGC CGAA ICGGGGAG	710	CUCCCCGC A GGUUGCCC	3489
1194	GCAGGCGG CUGAUGAG GCCGUUAGGC CGAA ICAACCUG	711	CAGGUUGC C CCGCCUGC	3490
1195	GGCAGGCG CUGAUGAG GCCGUUAGGC CGAA IGCAACCU	712	AGGUUGCC C CGCCUGCC	3491
1196	GGGCAGGC CUGAUGAG GCCGUUAGGC CGAA IGGCAACU	713	GGUUGCCC C GCCUGCCC	3492
1199	CUGGGGCA CUGAUGAG GCCGUUAGGC CGAA ICGGGGCA	714	UGCCCCGC C UGCCCCAG	3493
1200	GCUGGGGC CUGAUGAG GCCGUUAGGC CGAA IGCGGGGC	715	GCCCCGCC U GCCCCAGC	3494
1203	AGCGCUGG CUGAUGAG GCCGUUAGGC CGAA ICAGGCGG	716	CCGCCUGC C CCAGCGCU	3495
1204	UAGCGCUG CUGAUGAG GCCGUUAGGC CGAA IGCAGGCG	717	CGCCUGCC C CAGCGCUA	3496
1205	GUAGCGCU CUGAUGAG GCCGUUAGGC CGAA IGGCAGGC	718	GCCUGCCC C AGCGCUAC	3497
1206	AGUAGCGC CUGAUGAG GCCGUUAGGC CGAA IGGGCAGG	719	CCUGCCCC A GCGCUACU	3498
1211	UUGCCAGU CUGAUGAG GCCGUUAGGC CGAA ICGCUGGG	720	CCCAGCGC U ACUGGCAA	3499
1214	CAUUUGCC CUGAUGAG GCCGUUAGGC CGAA IUAGCGCU	721	AGCGCUAC U GGCAAAUG	3500
1218	GCCGCAUU CUGAUGAG GCCGUUAGGC CGAA ICCAGUAG	722	CUACUGGC A AAUGCGGC	3501
1227	GAAACAGG CUGAUGAG GCCGUUAGGC CGAA ICGGCAUU	723	AAUGCGGC C CCUGUUUC	3502
1228	AGAAACAG CUGAUGAG GCCGUUAGGC CGAA IGCGGCAU	724	AUGCGGCC C CUGUUUCU	3503
1229	CAGAAACA CUGAUGAG GCCGUUAGGC CGAA IGGCGGCA	725	UGCGGCCC C UGUUUCUG	3504
1230	CCAGAAAC CUGAUGAG GCCGUUAGGC CGAA IGGGCGGC	726	GCGGCCCC U GUUUCUGG	3505
1236	GCAGCUCC CUGAUGAG GCCGUUAGGC CGAA IAAACAGG	727	CCUGUUUC U GGAGCUGC	3506
1242	UCCCAAGC CUGAUGAG GCCGUUAGGC CGAA ICUCCAGA	728	UCUGGAGC U GCUUGGGA	3507
1245	GGUUCCCA CUGAUGAG GCCGUUAGGC CGAA ICAGCUCC	729	GGAGCUGC U UGGGAACC	3508
1253	CUGCGCGU CUGAUGAG GCCGUUAGGC CGAA IUUCCCAA	730	UUGGGAAC C AGCGCGCAG	3509
1254	ACUGCGCG CUGAUGAG GCCGUUAGGC CGAA IGUUCCCA	731	UGGGAACC A GCGCGCAGU	3510
1260	AGGGGCAC CUGAUGAG GCCGUUAGGC CGAA ICGCGUGG	732	CCAGCGCGC A GUGCCCCU	3511
1265	CCCGUAGG CUGAUGAG GCCGUUAGGC CGAA ICACUGCG	733	CGCAGUGC C CCUACGGG	3512
1266	CCCCGUAG CUGAUGAG GCCGUUAGGC CGAA IGCACUGC	734	GCAGUGCC C CUACGGGG	3513
1267	ACCCCGUA CUGAUGAG GCCGUUAGGC CGAA IGGCACUG	735	CAGUGCCC C UACGGGGU	3514
1268	CACCCCGU CUGAUGAG GCCGUUAGGC CGAA IGGGCACU	736	AGUGCCCC U ACGGGGUG	3515
1278	UCUUGAGG CUGAUGAG GCCGUUAGGC CGAA ICACCCCG	737	CCGGGUGC U CCUCAAGA	3516
1280	CGUCUUGA CUGAUGAG GCCGUUAGGC CGAA IAGCACCC	738	GGGGUGUC C UCAAGACG	3517
1281	GCGUCUUG CUGAUGAG GCCGUUAGGC CGAA IGAGCACC	739	GGUGUCUC U CAAGACGG	3518
1283	GUGCGUCU CUGAUGAG GCCGUUAGGC CGAA IAGGAGCA	740	UGCUCCUC A AGAGCCAC	3519
1290	GCGGGCAG CUGAUGAG GCCGUUAGGC CGAA ICGCCUUG	741	CAAGACGC A CUGCCCGC	3520
1292	CAGCGGGC CUGAUGAG GCCGUUAGGC CGAA IUGCGUCU	742	AGACGCAC U GCCCGCUG	3521
1295	UGGCAGCG CUGAUGAG GCCGUUAGGC CGAA ICAGCGGG	743	CGGCACUGC C CGCUGCGA	3522
1296	CUGGCAGC CUGAUGAG GCCGUUAGGC CGAA IGCAGCGG	744	GCACUGCC C GCUGCGAG	3523
1299	CAGCCCGC CUGAUGAG GCCGUUAGGC CGAA IGGGCAGG	745	CUGCCCGC U GCGAGCUG	3524
1306	GGUGACGC CUGAUGAG GCCGUUAGGC CGAA ICCCGCAG	746	CCGCGAGC U GCGGUCAC	3525
1313	UGCUGGGG CUGAUGAG GCCGUUAGGC CGAA IACCGCAG	747	CCGCGGCC A CCCCAGCA	3526
1315	GCCGCUGG CUGAUGAG GCCGUUAGGC CGAA IUGACCGC	748	GCGGUCAC C CCAGCAGC	3527
1316	GGCCGCUG CUGAUGAG GCCGUUAGGC CGAA IGUGACCG	749	CGGUCACC C CAGCAGCC	3528
1317	CGGCCGCU CUGAUGAG GCCGUUAGGC CGAA IGGUGACC	750	GGUCACCC C AGCAGCCG	3529
1318	CCGGCCGC CUGAUGAG GCCGUUAGGC CGAA IGGGUGAC	751	GUCACCCC A GCAGCCGG	3530
1321	ACACCGGC CUGAUGAG GCCGUUAGGC CGAA ICUGGGGU	752	ACCCCAGC A GCCGGUGU	3531
1324	CAGACACC CUGAUGAG GCCGUUAGGC CGAA ICUGGCGG	753	CCAGCAGC C GGUGUCUG	3532
1331	CCGGGCAC CUGAUGAG GCCGUUAGGC CGAA IACACCGG	754	CCGGUGCC U GUGCCCGG	3533
1336	UUCUCCCG CUGAUGAG GCCGUUAGGC CGAA ICACAGAC	755	GCCCGUGC C CGGGAGAA	3534
1337	CUUCUCCC CUGAUGAG GCCGUUAGGC CGAA IGCACAGA	756	UCUGUGCC C GGGAGAAG	3535

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1347	AGCCCUGG CUGAUGAG GCCGUUAGGC CGAA ICUUCUCC	757	GGAGAAGC C CCAGGGCU	3536
1348	GAGCCCUG CUGAUGAG GCCGUUAGGC CGAA IGCUUCUC	758	GAGAAGCC C CAGGGCUC	3537
1349	AGAGCCCU CUGAUGAG GCCGUUAGGC CGAA IGGCUUCU	759	AGAAGCCC C AGGGCUCU	3538
1350	CAGAGCCC CUGAUGAG GCCGUUAGGC CGAA IGGGCUUC	760	GAAGCCCC A GGGCUCUG	3539
1355	CGGCACAG CUGAUGAG GCCGUUAGGC CGAA ICCCUGGG	761	CCCAGGGC U CUGUGGCG	3540
1357	GCCGCCAC CUGAUGAG GCCGUUAGGC CGAA IAGCCCUG	762	CAGGGCUC U GUGGCGGC	3541
1366	UCCUGGGG CUGAUGAG GCCGUUAGGC CGAA ICCGCCAC	763	GUGGCGGC C CCGAGGA	3542
1367	CUCCUGGG CUGAUGAG GCCGUUAGGC CGAA IGCCGCCA	764	UGGCGGCC C CCGAGGAG	3543
1368	CCUCCUGG CUGAUGAG GCCGUUAGGC CGAA IGGCCGCC	765	GGCGGCCC C CGAGGAGG	3544
1369	UCCUCCUG CUGAUGAG GCCGUUAGGC CGAA IGGGCCGC	766	GCGGGCCC C GAGGAGGA	3545
1382	GGGGUCUG CUGAUGAG GCCGUUAGGC CGAA IUCCUCCU	767	AGGAGGAC A CAGACCCC	3546
1384	CGGGGGUC CUGAUGAG GCCGUUAGGC CGAA IUGUCCUC	768	GAGGACAC A GACCCCCG	3547
1388	GGGAGGGG CUGAUGAG GCCGUUAGGC CGAA IUCUGUGU	769	ACACAGAC C CCGUGCC	3548
1389	GGCGACGG CUGAUGAG GCCGUUAGGC CGAA IGUCUGUG	770	CACAGACC C CCGUGCC	3549
1390	AGGCGACG CUGAUGAG GCCGUUAGGC CGAA IGGUCUGU	771	ACAGACCC C CGUGCCU	3550
1391	CAGGCGAC CUGAUGAG GCCGUUAGGC CGAA IGGGUCUG	772	CAGACCCC C GUGCCUG	3551
1397	CUGCACCA CUGAUGAG GCCGUUAGGC CGAA ICGACGGG	773	CCCGUGCC C UGGUGCAG	3552
1398	GCUGCACC CUGAUGAG GCCGUUAGGC CGAA IGCGACGG	774	CCGUGCCC U GGUGCAGC	3553
1404	GGAGCAGC CUGAUGAG GCCGUUAGGC CGAA ICACCAGG	775	CCUGGUGC A GUGGCUCC	3554
1407	GGCGGAGC CUGAUGAG GCCGUUAGGC CGAA ICUGCACC	776	GGUGCAGC U GCUGGCGC	3555
1410	GCCGGCGG CUGAUGAG GCCGUUAGGC CGAA ICAGCUGC	777	GCAGCUGC U GCCGGCGC	3556
1412	GGCCGGCG CUGAUGAG GCCGUUAGGC CGAA IAGCAGCU	778	AGCUGCUC C GGCAGCAC	3557
1415	GCUGGCGCU CUGAUGAG GCCGUUAGGC CGAA IGGCAGCA	779	UGCUGCGC C AGCACAGC	3558
1416	UGCCGCUGC CUGAUGAG GCCGUUAGGC CGAA IGCGGAGC	780	GCUGCGCC A GCACAGCA	3559
1419	GGCUGCUG CUGAUGAG GCCGUUAGGC CGAA ICUGGCGG	781	CCGCCAGC A CAGCAGCC	3560
1421	GGGGCUGC CUGAUGAG GCCGUUAGGC CGAA IUGCUGGC	782	GCCAGCAC A GCAGCCCC	3561
1424	CCAGGGCU CUGAUGAG GCCGUUAGGC CGAA ICUGUGCU	783	AGCACAGC A GCCCCUGG	3562
1427	CUGCCAGG CUGAUGAG GCCGUUAGGC CGAA ICUGCUGU	784	ACAGCAGC C CCUGGCAG	3563
1428	CCUGCCAG CUGAUGAG GCCGUUAGGC CGAA IGCUGCUG	785	CAGCAGCC C CUGGCAGG	3564
1429	ACCUGCCA CUGAUGAG GCCGUUAGGC CGAA IGGCUGCU	786	AGCAGCCC C UGGCAGGU	3565
1430	CACCUGCC CUGAUGAG GCCGUUAGGC CGAA IGGGCUGC	787	GCAGCCCC U GGCAGGUG	3566
1434	CCGACACC CUGAUGAG GCCGUUAGGC CGAA ICCAGGGG	788	CCCCUGGC A GGUGACG	3567
1445	GCGCACGA CUGAUGAG GCCGUUAGGC CGAA ICCGUACA	789	UGUACGGC U CCGUGCGG	3568
1456	CGCAGGCA CUGAUGAG GCCGUUAGGC CGAA ICCCGCAC	790	GUGCGGGC C UGCCUGCG	3569
1457	GCGCAGGC CUGAUGAG GCCGUUAGGC CGAA IGCCCGCA	791	UGCGGGCC U GCCUGCGC	3570
1460	CGGCGCGA CUGAUGAG GCCGUUAGGC CGAA ICAGGCCC	792	GGCCUGCC U GCGCCGG	3571
1461	GCCGGCGC CUGAUGAG GCCGUUAGGC CGAA IGCAGGCC	793	GGCCUGCC U GCGCCGG	3572
1466	CAGCAGCC CUGAUGAG GCCGUUAGGC CGAA ICGGCAGG	794	GCCUGCGC C GGCGGGUG	3573
1470	GGGGCACC CUGAUGAG GCCGUUAGGC CGAA ICCGGCGG	795	GCGCCGGC U GGGCCCC	3574
1475	GGCCCUGG CUGAUGAG GCCGUUAGGC CGAA ICACCAGC	796	GCUGGUGC C CCCAGGCC	3575
1477	AGGCCUGG CUGAUGAG GCCGUUAGGC CGAA IGCACCAG	797	CUGGUGCC C CCAGGCCU	3576
1478	GAGGCCUG CUGAUGAG GCCGUUAGGC CGAA IGGCACCA	798	UGGUGCCC C CAGGCCUC	3577
1479	AGAGGCCU CUGAUGAG GCCGUUAGGC CGAA IGGGCACC	799	GGUGCCCC C AGGCCUCU	3578
1480	CAGAGGCC CUGAUGAG GCCGUUAGGC CGAA IGGGGCAC	800	GUGCCCCC A GGCCCUG	3579
1484	GCCCCAGA CUGAUGAG GCCGUUAGGC CGAA ICCCUGGG	801	CCCCAGGC C UCUGGGGC	3580
1485	AGCCCCAG CUGAUGAG GCCGUUAGGC CGAA IGCCCUGG	802	CCCAGGCC U CUGGGGCU	3581
1487	GGAGCCCC CUGAUGAG GCCGUUAGGC CGAA IAGGCCUG	803	CAGGCCUC U GGGGCUCC	3582

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Table IV

1493	GUGCCUGG CUGAUGAG GCCGUUAGGC CGAA ICCCCAGA	804	UCUGGGGC U CCAGGCAC	3583
1495	UUGUGCCU CUGAUGAG GCCGUUAGGC CGAA IAGCCCCA	805	UGGGGCUC C AGGCACAA	3584
1496	GUUGUGCC CUGAUGAG GCCGUUAGGC CGAA IGAGCCCC	806	GGGGCUCC A GGCACAAC	3585
1500	GUUCGUUG CUGAUGAG GCCGUUAGGC CGAA ICCUGGAG	807	CUCCAGGC A CAACGAAC	3586
1502	GCGUUCGU CUGAUGAG GCCGUUAGGC CGAA IUGCCUGG	808	CCAGGCAC A ACGAACGC	3587
1511	GAGGAAGC CUGAUGAG GCCGUUAGGC CGAA ICGUUCGU	809	ACGAACGC C GCUUCCUC	3588
1514	CCUGAGGA CUGAUGAG GCCGUUAGGC CGAA ICGGCGUU	810	AACGCCGC U UCCUCAGG	3589
1517	GUUCCUGA CUGAUGAG GCCGUUAGGC CGAA IAAGCGGC	811	GCCGCUUC C UCAGGAAC	3590
1518	UGUUCCUG CUGAUGAG GCCGUUAGGC CGAA IGAAGCGG	812	CCGCUUCC U CAGGAACA	3591
1520	GGUGUUCC CUGAUGAG GCCGUUAGGC CGAA IAGGAAGC	813	GCUUCCUC A GGAACACC	3592
1526	CUUCUUGG CUGAUGAG GCCGUUAGGC CGAA IUUCUUGA	814	UCAGGAAC A CCAAGAAG	3593
1528	AAGUUCUU CUGAUGAG GCCGUUAGGC CGAA IUGUUCCU	815	AGGAACAC C AAGAAGUU	3594
1529	GAAGUUCU CUGAUGAG GCCGUUAGGC CGAA IGUGUUCC	816	GGAACACC A AGAAGUUC	3595
1538	CAGGGAGA CUGAUGAG GCCGUUAGGC CGAA IAACUUCU	817	AGAAGUUC A UCUCCUG	3596
1541	CCCCAGGG CUGAUGAG GCCGUUAGGC CGAA IAUGAACU	818	AGUUCAUC U CCUGGGG	3597
1543	UUCCCCAG CUGAUGAG GCCGUUAGGC CGAA IAGAUGAA	819	UUCAUCUC C CUGGGAA	3598
1544	CUUCCCCA CUGAUGAG GCCGUUAGGC CGAA IGAGAUGA	820	UCAUCUCC C UGGGAAG	3599
1549	GCUUCCCC CUGAUGAG GCCGUUAGGC CGAA IGGAGAUG	821	CAUCUCCC U GGGAAGC	3600
1554	GCUUGGCA CUGAUGAG GCCGUUAGGC CGAA ICUUGGCC	822	GGGAAGC A UGCCAAGC	3601
1558	GAGAGGUU CUGAUGAG GCCGUUAGGC CGAA ICAUGCUU	823	AAGCAUGC C AAGCUCUC	3602
1559	CGAGAGCU CUGAUGAG GCCGUUAGGC CGAA IGCAUGCU	824	AGCAUGCC A AGUUCUGG	3603
1563	GCAGCGAG CUGAUGAG GCCGUUAGGC CGAA ICUUGGCA	825	UGCCAAGC U CUGGCUG	3604
1565	CUGCAGCG CUGAUGAG GCCGUUAGGC CGAA IAGCGUUG	826	CCAAGCUC U CGUGGCAG	3605
1569	GCUUCCUGC CUGAUGAG GCCGUUAGGC CGAA ICGAGAGC	827	GCUCUCGC U GCAGGAGC	3606
1572	UCAGCUCC CUGAUGAG GCCGUUAGGC CGAA ICAGCGAG	828	CUCGCUGC A GGAGCUGA	3607
1578	UCCCACUC CUGAUGAG GCCGUUAGGC CGAA ICUCCUGC	829	GCAGGAGC U GACGUGA	3608
1604	CCAAGCGG CUGAUGAG GCCGUUAGGC CGAA IUCCCGCA	830	UGCGGGAC U GCGCUUGG	3609
1609	CGGCAGCCA CUGAUGAG GCCGUUAGGC CGAA ICGGCAGUC	831	GACUGCGC U UGGCUGCG	3610
1614	UCCUGCGC CUGAUGAG GCCGUUAGGC CGAA ICCAAGCG	832	CGCUUGGC U GCGGCAGGA	3611
1619	UGGGCUCC CUGAUGAG GCCGUUAGGC CGAA ICGCAGCC	833	GGCUGGC A GGAGCCCA	3612
1625	AACCCCUG CUGAUGAG GCCGUUAGGC CGAA ICUCCUGC	834	GCAGGAGC C CAGGGUU	3613
1626	CAACCCCU CUGAUGAG GCCGUUAGGC CGAA IGCUCCUG	835	CAGGAGCC C AGGGUUG	3614
1627	CCAACCCC CUGAUGAG GCCGUUAGGC CGAA IGGCUCCU	836	AGGAGCCC A GGGUUGG	3615
1637	CGGAACAC CUGAUGAG GCCGUUAGGC CGAA ICCAACCC	837	GGGUUGGC U GUGUUCC	3616
1644	CUGCGGCC CUGAUGAG GCCGUUAGGC CGAA IAACACAG	838	CUGUGUUC C GGCCGCAG	3617
1648	UGCUGCUG CUGAUGAG GCCGUUAGGC CGAA ICCGGAAC	839	GUUCCGGC C GCAGGCA	3618
1651	CGGUGCUC CUGAUGAG GCCGUUAGGC CGAA ICGGCCGG	840	CCGGCCGC A GAGCACCG	3619
1655	GCAGACGG CUGAUGAG GCCGUUAGGC CGAA ICUUCUCG	841	CGCAGAGC A CCGUCUGC	3620
1658	ACGGAGAC CUGAUGAG GCCGUUAGGC CGAA IUGCUCUG	842	CAGAGCAC C GUCUGCGU	3621
1662	CCUCAGCC CUGAUGAG GCCGUUAGGC CGAA IACGGUGC	843	GCACCGUC U GCGUGAGG	3622
1676	CUUGGCCA CUGAUGAG GCCGUUAGGC CGAA IACCUCCU	844	AGGAGAUC C UGGCCAAG	3623
1677	ACUUGGCC CUGAUGAG GCCGUUAGGC CGAA IGAUCUCC	845	GGAGAUCC U GGCCAAGU	3624
1681	AGGAACUU CUGAUGAG GCCGUUAGGC CGAA ICCAGGAU	846	AUCCUGGC C AAGUUCCU	3625
1682	CAGGAACU CUGAUGAG GCCGUUAGGC CGAA ICCCAGGA	847	CCCUGGCC A AGUUCCUG	3626
1684	CCAGGGCA CUGAUGAG GCCGUUAGGC CGAA IAACUUGG	848	CCAAGUUC C UGGCACUGG	3627
1689	GCCAGUGC CUGAUGAG GCCGUUAGGC CGAA IGAACUUG	849	CAAGUUCC U GCACUGGC	3628
1692	UCAGCCAG CUGAUGAG GCCGUUAGGC CGAA ICAGGAAC	850	GUUCCUGC A CUGGCUGA	3629

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1694	CAUCAGCC CUGAUGAG GCCGUUAGGC CGAA IUGCAGGA	851	UCCUGCAC U GGCUGAUG	3630
1698	CACUCAUC CUGAUGAG GCCGUUAGGC CGAA ICCAGUGC	852	GCACUGGC U GAUGAGUG	3631
1722	ACCUGAGC CUGAUGAG GCCGUUAGGC CGAA ICUCGACG	853	CGUGGAGC U GCUCAGGU	3632
1725	AAGACCUG CUGAUGAG GCCGUUAGGC CGAA ICAGCUCG	854	CGAGUGGC U CAGGUCCU	3633
1727	GAAAGACC CUGAUGAG GCCGUUAGGC CGAA IAGCAGCU	855	AGCUGUCC A GGUCUUUC	3634
1732	UAAAGAA CUGAUGAG GCCGUUAGGC CGAA IACCUGAG	856	CUCAGGUC U UGCUUUUA	3635
1736	GACAUAAA CUGAUGAG GCCGUUAGGC CGAA IAAAGACC	857	GGUCUUUC U UUUAUGUC	3636
1745	GGUCUUCG CUGAUGAG GCCGUUAGGC CGAA IACAUAAA	858	UUUAUGUC A CGGAGACC	3637
1753	UGAAACGU CUGAUGAG GCCGUUAGGC CGAA IUCUUCGU	859	ACGGAGAC C ACGUUUCA	3638
1754	UUGAAACG CUGAUGAG GCCGUUAGGC CGAA IGUCUUCG	860	CGGAGACC A CGUUUCAA	3639
1761	UGUUCUUU CUGAUGAG GCCGUUAGGC CGAA IAAACGUG	861	CACGUUUC A AAAGAACA	3640
1769	AAAGAGCC CUGAUGAG GCCGUUAGGC CGAA IUUCUUUU	862	AAAGAAC A GGCUCUUU	3641
1773	AGAAAAG CUGAUGAG GCCGUUAGGC CGAA ICCUCUUC	863	GAAUAGCU U CUUUUCU	3642
1775	CUAGAAAA CUGAUGAG GCCGUUAGGC CGAA IAGCUUCU	864	ACAGGCUC U UCUUUCUAC	3643
1731	CUUUCGGU CUGAUGAG GCCGUUAGGC CGAA IAAAAAGA	865	UCUUUCUC U ACCGGAAG	3644
1734	ACUUCUUCC CUGAUGAG GCCGUUAGGC CGAA IUAGAAAA	866	UUUUCUAC C GGAAGAGU	3645
1796	CUUCGUCC CUGAUGAG GCCGUUAGGC CGAA IACACUCU	867	AGACGUGC U GGAGCAAG	3646
1802	UUGGAAUU CUGAUGAG GCCGUUAGGC CGAA ICUCGACA	868	UCUGGAGC A AGUUGCAA	3647
1809	CAAAGCUU CUGAUGAG GCCGUUAGGC CGAA ICAAUUCG	869	CAAGUUGC A AAGCAUUG	3648
1814	GAUUCCAA CUGAUGAG GCCGUUAGGC CGAA ICUUUGCA	870	UGCAAAGC A UUGGAAUC	3649
1823	CUGCUUGUC CUGAUGAG GCCGUUAGGC CGAA IAUUCCAA	871	UUUGGAAUC A GACAGCAC	3650
1827	UUCAAGUGC CUGAUGAG GCCGUUAGGC CGAA IUCCUAUU	872	AAUCAGAC A GCACUUGA	3651
1830	UUCUUCAAG CUGAUGAG GCCGUUAGGC CGAA ICUGCUUG	873	CAGACAGC A CUUGAAGA	3652
1832	CUUCUUCA CUGAUGAG GCCGUUAGGC CGAA IUGCUUGUC	874	GACAGCAC U UGAAGAGG	3653
1845	CCCGUAGC CUGAUGAG GCCGUUAGGC CGAA ICAUCUUC	875	GAGCUUGC A GCUGCGGG	3654
1848	GCCUCCCG CUGAUGAG GCCGUUAGGC CGAA ICUCGACC	876	GGUCAGC U GCGGGAGC	3655
1857	CUUUCGAC CUGAUGAG GCCGUUAGGC CGAA ICUCCCCG	877	GCGGGAGC U GUCGGAAG	3656
1867	CUGACCUC CUGAUGAG GCCGUUAGGC CGAA ICUUCCGA	878	UCGGAAGC A GAGGUCAG	3657
1874	AGACUUGC CUGAUGAG GCCGUUAGGC CGAA IACUUCUG	879	CAGAGGUC A GGCAGCAU	3658
1878	CCCGAUGC CUGAUGAG GCCGUUAGGC CGAA ICCUUACC	880	GGUCAGGC A GCAUCGGG	3659
1881	CUUCCCGA CUGAUGAG GCCGUUAGGC CGAA IUUGCCUG	881	CAGGCAGC A UCGGGAAG	3660
1891	GCGGGCCU CUGAUGAG GCCGUUAGGC CGAA ICUUUCCCG	882	CGGGAAGC C AGGCCGGC	3661
1892	GGCGGGCC CUGAUGAG GCCGUUAGGC CGAA IGCUUUCCG	883	GGGAAGCC A GGCCGGC	3662
1896	GCAGGGCG CUGAUGAG GCCGUUAGGC CGAA ICCUUGGCU	884	AGGCAGCC C GGCCCGGC	3663
1897	AGCAGGGC CUGAUGAG GCCGUUAGGC CGAA ICCUUGGC	885	GCCAGGCC C GGCCCGGCU	3664
1900	CUGCAGCAG CUGAUGAG GCCGUUAGGC CGAA ICGGGCCU	886	AGGCCGGC C CGGCUGAC	3665
1901	CGGCAGCA CUGAUGAG GCCGUUAGGC CGAA IGCGGGCU	887	GGCCCGGC C CUGCUGAG	3666
1902	ACGGCAGC CUGAUGAG GCCGUUAGGC CGAA ICGGGGGC	888	GCCCGGCU U GCUGAGGU	3667
1905	UUGACGUC CUGAUGAG GCCGUUAGGC CGAA ICAGGGCG	889	CGCUGGC U GAGGUCUA	3668
1912	CCGAGGCU CUGAUGAG GCCGUUAGGC CGAA IACUUCAG	890	CUGAUGUC C AGACUCCG	3669
1913	AGGGAGCU CUGAUGAG GCCGUUAGGC CGAA IGACGUCA	891	UGAUGUC A GACUCCG	3670
1917	UGGAAGGG CUGAUGAG GCCGUUAGGC CGAA IUCCGGAC	892	GUCGAGAC U CCGGCUUA	3671
1919	GAUGAAGC CUGAUGAG GCCGUUAGGC CGAA IAGCUCGG	893	CCAGACUC C GGCUCAUC	3672
1922	GGGGAUGA CUGAUGAG GCCGUUAGGC CGAA ICGGAGUC	894	GACUCCGC U UGAUGCC	3673
1925	CUUGGGGA CUGAUGAG GCCGUUAGGC CGAA IAAGCGGA	895	UCCGCUUC A UCCCAAG	3674
1928	AGCGCUUGG CUGAUGAG GCCGUUAGGC CGAA IAUGAAGC	896	GCUUCAUC C CCAAGCCU	3675
1929	CAGGCUUG CUGAUGAG GCCGUUAGGC CGAA IGAUGAAG	897	CUUCAUCC C CAAGCCUG	3676

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1930	UCAGGCUU CUGAUGAG GCCGUUAGGC CGAA IGGAUGAA	898	UUCAUCCC C AAGCCUGA	3677
1931	GUCAGGCU CUGAUGAG GCCGUUAGGC CGAA IGGGAUGA	899	UCAUCCC A AGCCUGAC	3678
1935	GCCGUCA CUGAUGAG GCCGUUAGGC CGAA ICUUGGG	900	CCCCAAGC C UGACGGGC	3679
1936	AGCCGUC CUGAUGAG GCCGUUAGGC CGAA IGCUUGGG	901	CCCAAGC U GACGGGCU	3680
1944	UCGGCCGC CUGAUGAG GCCGUUAGGC CGAA ICCCGUCA	902	UGACGGGC U GCCGCCGA	3681
1950	UCACAAUC CUGAUGAG GCCGUUAGGC CGAA ICUGCAGC	903	GCUGCGGC C GAUUGUGA	3682
1961	GUAGUCCA CUGAUGAG GCCGUUAGGC CGAA IUUCACAA	904	UUGUGAAC A UGGACUAC	3683
1967	CAUGACGU CUGAUGAG GCCGUUAGGC CGAA IUCCAUGU	905	ACAUGGAC U ACGUCGUG	3684
1981	AACGUUCU CUGAUGAG GCCGUUAGGC CGAA ICUCCCAU	906	GUGGGAGC C AGAACGUU	3685
1982	GAACGUUC CUGAUGAG GCCGUUAGGC CGAA IGCUCCCA	907	UGGGAGCC A GAACGUUC	3686
1991	UUCUCUGU CUGAUGAG GCCGUUAGGC CGAA IAACGUUC	908	GAACGUUC C GCAGAGAA	3687
1994	CUUUUCUC CUGAUGAG GCCGUUAGGC CGAA ICGGAACG	909	CGUUCCGC A GAGAAAAG	3688
2008	AGACGUC CUGAUGAG GCCGUUAGGC CGAA ICUCUCUU	910	AAGAGGGC C GAGCGUCU	3689
2016	UCGAGGUG CUGAUGAG GCCGUUAGGC CGAA IACGCUCG	911	CGAGCGUC U CACCUCGA	3690
2018	CUUCGAGG CUGAUGAG GCCGUUAGGC CGAA IAGACGCU	912	AGCGUCUC A CCUCGAGG	3691
2020	AUUCUGA CUGAUGAG GCCGUUAGGC CGAA IUGAGACG	913	CGUCUCAC C UCGAGGGU	3692
2021	CAUCCUCG CUGAUGAG GCCGUUAGGC CGAA IGUGAGAC	914	GUCUCACC U CGAGGGUG	3693
2035	CUGAACAG CUGAUGAG GCCGUUAGGC CGAA ICCUUCAC	915	GUGAAGGC A CUUUCAG	3694
2037	CGCUGAAC CUGAUGAG GCCGUUAGGC CGAA IUGCUUC	916	GAAGGCAC U GUUCAGCG	3695
2042	GAGCACGG CUGAUGAG GCCGUUAGGC CGAA IAACACUG	917	CACGUUC A GCGUGCUC	3696
2049	CGUAGUUG CUGAUGAG GCCGUUAGGC CGAA ICACGCUG	918	CAGCGUGC U CAACUACG	3697
2051	CUCGUAGU CUGAUGAG GCCGUUAGGC CGAA IAGCACGC	919	GCGUGCUC A ACUACGAG	3698
2054	CCGCUCGU CUGAUGAG GCCGUUAGGC CGAA IUUGAGCA	920	UGCUCAAC U ACGAGCGG	3699
2072	GAGGCCGG CUGAUGAG GCCGUUAGGC CGAA IGCCCGCG	921	CGCGGCGC C CCGGCCUC	3700
2073	GGAGGCC CUGAUGAG GCCGUUAGGC CGAA IGCGCCGC	922	GCGGCGCC C CGGCCUCC	3701
2074	AGGAGGCC CUGAUGAG GCCGUUAGGC CGAA IGGCGCCG	923	CGGCGCCC C GGCCUCCU	3702
2078	GCCCAGGA CUGAUGAG GCCGUUAGGC CGAA ICCCGGGC	924	GCCCCGGC C UCCUGGGC	3703
2079	CGCCCAGG CUGAUGAG GCCGUUAGGC CGAA IGCCCGGG	925	CCCCGGCC U CCUGGGCG	3704
2081	GGCGCCCA CUGAUGAG GCCGUUAGGC CGAA IAGGCCGG	926	CCGGCCUC C UGGGCGCC	3705
2082	AGGCGCCC CUGAUGAG GCCGUUAGGC CGAA IGAGGCCG	927	CGGCCUCC U GGGCGCCU	3706
2089	AGCACAGA CUGAUGAG GCCGUUAGGC CGAA ICGCCCAG	928	CUGGGCGC C UGCGUGCU	3707
2090	CAGCACAG CUGAUGAG GCCGUUAGGC CGAA IGCGCCCA	929	UGGGCGCC U GCGUGCUG	3708
2092	GCCAGCAG CUGAUGAG GCCGUUAGGC CGAA IAGGCGCC	930	GGCGCCUG C GUGCUGGG	3709
2097	CCAGGCGC CUGAUGAG GCCGUUAGGC CGAA ICACAGAG	931	CUCUGUGC U GGGCCUGG	3710
2102	ACCGUCCA CUGAUGAG GCCGUUAGGC CGAA ICCCAGCA	932	CGCUGGGC C UGGAGGAU	3711
2104	UAUCGUCC CUGAUGAG GCCGUUAGGC CGAA IGCCCAGC	933	GCUGGGCC U GGAUGAUA	3712
2114	GGCGCUGU CUGAUGAG GCCGUUAGGC CGAA IAUAUCGU	934	ACGACAUC C ACAGGGCC	3713
2115	AGGCGCUG CUGAUGAG GCCGUUAGGC CGAA IGAUAUCG	935	CGAUAUCC A CAGGGCCU	3714
2117	CCAGGCGC CUGAUGAG GCCGUUAGGC CGAA IUGGAUAU	936	AUAUCCAC A GGGCCUGG	3715
2122	GUGCGCCA CUGAUGAG GCCGUUAGGC CGAA ICCCUGUG	937	CACAGGGC C UGGCGCAC	3716
2123	GGUGCGCC CUGAUGAG GCCGUUAGGC CGAA IGCCCUGU	938	ACAGGGCC U GGCGCACC	3717
2129	CACGAAGG CUGAUGAG GCCGUUAGGC CGAA IGGCCAGG	939	CCCGGCGC A CCUUCGUG	3718
2131	AGCACGAA CUGAUGAG GCCGUUAGGC CGAA IUGGCCCA	940	UGGCCGAC C CGCGGCU	3719
2132	CAGCACGA CUGAUGAG GCCGUUAGGC CGAA IGUGGCCC	941	GGCGCACC U UCGUGCUG	3720
2139	GCACAGCC CUGAUGAG GCCGUUAGGC CGAA ICACGAAG	942	CUUCGUGC U GCGUGUGC	3721
2152	GGGCCUG CUGAUGAG GCCGUUAGGC CGAA IGCCCGCA	943	GUGCGGGC C CAGGACCG	3722
2153	CGGGUCCU CUGAUGAG GCCGUUAGGC CGAA IGCCCGCA	944	UGCGGGCC C AGGACCCG	3723

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2154	GCGGGUCC CUGAUGAG GCCGUUAGGC CGAA IGGCCCGC	945	GCGGGCCC A GGACCCGC	3724
2159	AGGCGGCG CUGAUGAG GCCGUUAGGC CGAA IUCCUGGG	946	CCCAGGAC C CGCCGCCU	3725
2160	CAGGCGGC CUGAUGAG GCCGUUAGGC CGAA IGUCCUGG	947	CCAGGACC C GCCGCCUG	3726
2163	GCUCAGGC CUGAUGAG GCCGUUAGGC CGAA IGGCCUCC	948	GGACCCGC C GCCUGAGC	3727
2166	ACAGCUCA CUGAUGAG GCCGUUAGGC CGAA IGGCGGG	949	CCCGCCGC C UGAGCUGU	3728
2167	UACAGCUC CUGAUGAG GCCGUUAGGC CGAA IGCGGCGG	950	CCGCCGCC U GAGCUGUA	3729
2172	CAAAGUAC CUGAUGAG GCCGUUAGGC CGAA IGUCAGGC	951	GCCUGAGC U GUACUUUG	3730
2177	CUUGACAA CUGAUGAG GCCGUUAGGC CGAA IUACAGCU	952	AGCUGUAC U UUGUCAAG	3731
2182	AUCCACCU CUGAUGAG GCCGUUAGGC CGAA IACAAAGU	953	ACUUGUGC A AGGUGGAU	3732
2210	GGGGAUGG CUGAUGAG GCCGUUAGGC CGAA IUCGUACG	954	CGUACGAC A CCAUCCCC	3733
2212	UGGGGGAU CUGAUGAG GCCGUUAGGC CGAA IUGUCGUA	955	UACGACAC C AUCCCCA	3734
2213	CUGGGGGA CUGAUGAG GCCGUUAGGC CGAA IGUGUCGU	956	ACGACACC A UCCCCAG	3735
2216	GUCCUGGG CUGAUGAG GCCGUUAGGC CGAA IAUGGUGU	957	ACACCAUC C CCCAGGAC	3736
2217	UGUCCUGG CUGAUGAG GCCGUUAGGC CGAA IGAUGGUG	958	CACCAUCC C CCAGGACA	3737
2218	CUGUCCUG CUGAUGAG GCCGUUAGGC CGAA IGGAUGGU	959	ACCAUCCC C CAGGACAG	3738
2219	CCUGUCCU CUGAUGAG GCCGUUAGGC CGAA IGGAUGG	960	CCAUCCCC C AGGACAGG	3739
2220	GCCUGUCC CUGAUGAG GCCGUUAGGC CGAA IGGGAUG	961	CAUCCCCC A GGACAGGC	3740
2225	CGUGAGCC CUGAUGAG GCCGUUAGGC CGAA IUCCUGGG	962	CCCAGGAC A GGCUCACG	3741
2229	CCUCCGUG CUGAUGAG GCCGUUAGGC CGAA ICCUGUCC	963	GGACAGGC U CACGGAGG	3742
2231	GACCUCCG CUGAUGAG GCCGUUAGGC CGAA IAGGCUGU	964	ACAGGCUC A CGGAGGUC	3743
2240	GCUGGCGA CUGAUGAG GCCGUUAGGC CGAA IACCUCCG	965	CGGAGGUC A UGGCCAGC	3744
2245	AUGAUGCU CUGAUGAG GCCGUUAGGC CGAA ICGAUGAC	966	GUCAUGGC C AGCAUCAU	3745
2246	GAUGAUGC CUGAUGAG GCCGUUAGGC CGAA IGCGAUGA	967	UCAUGGCC A GCAUCAUC	3746
2249	UUUGAUGA CUGAUGAG GCCGUUAGGC CGAA ICUGGCGA	968	UGGCCAGC A UCAUCAAA	3747
2252	GGGUUUGA CUGAUGAG GCCGUUAGGC CGAA IAUGCUGG	969	CCAGCAUC A UCAAACCC	3748
2255	CUGGGUUU CUGAUGAG GCCGUUAGGC CGAA IAUGAUGC	970	GCAUCAUC A AACCCCAG	3749
2259	UGUUCUGG CUGAUGAG GCCGUUAGGC CGAA IUUUGAUG	971	CAUCAAAC C CCAGAACA	3750
2260	GUGUUCUG CUGAUGAG GCCGUUAGGC CGAA IGUUUGAU	972	AUCAAACC C CAGAACAC	3751
2261	CGUGUUCU CUGAUGAG GCCGUUAGGC CGAA IGGUUUGA	973	UCAAACCC C AGAACACG	3752
2262	ACGUGUUC CUGAUGAG GCCGUUAGGC CGAA IGGGUUUG	974	CAAACCCC A GAACACGU	3753
2267	GCAGUACG CUGAUGAG GCCGUUAGGC CGAA IUUGUGGG	975	CCCAGAAC A CGUACGGC	3754
2273	ACCCACGC CUGAUGAG GCCGUUAGGC CGAA IUACGUGU	976	ACACGUAC U GCGUCGU	3755
2290	UGGACCAC CUGAUGAG GCCGUUAGGC CGAA ICACACCG	977	CGGUAUGC C GUCGUCCA	3756
2297	GGCCUUCU CUGAUGAG GCCGUUAGGC CGAA IACCACGG	978	CCGUCGUC C AGAAGGCC	3757
2298	CGGCCUUC CUGAUGAG GCCGUUAGGC CGAA IGACCACG	979	CGUCGUCC A GAAGGCCG	3758
2305	CCAUGGGC CUGAUGAG GCCGUUAGGC CGAA ICCUCUCG	980	CAGAAGGC C GGCCAUGG	3759
2408	UGCCCAUG CUGAUGAG GCCGUUAGGC CGAA ICGGCCCU	981	AAGGCCGC C CAUGGCCA	3760
2309	GGGCCCAU CUGAUGAG GCCGUUAGGC CGAA IGCGGCCU	982	AGGCCGCC C AUGGCCAC	3761
2311	CGUGCCCA CUGAUGAG GCCGUUAGGC CGAA IGGCGGCC	983	GGCCGCCC A UGGCCACG	3762
2316	UGGGACCG CUGAUGAG GCCGUUAGGC CGAA ICCCAUGG	984	CCAUGGGC A CGUCCCCA	3763
2321	GGCCUUGC CUGAUGAG GCCGUUAGGC CGAA IACGUGCC	985	GGCACGUC C CCAAGGCC	3764
2424	GAAGGCCU CUGAUGAG GCCGUUAGGC CGAA ICGGACGU	986	ACGUCCGC A AGGCCUUC	3765
2329	CUCUGGAA CUGAUGAG GCCGUUAGGC CGAA ICCUUGCG	987	CGCAAGGC C UUCAAGAG	3766
2330	GCUCUGGA CUGAUGAG GCCGUUAGGC CGAA IGCCUUGC	988	GCAAGGCC U UCAAGAGC	3767
2333	GGGCUCU CUGAUGAG GCCGUUAGGC CGAA IAAGGCCU	989	AGGCCUUC A AGAGCCAC	3768
2337	AGAGACGU CUGAUGAG GCCGUUAGGC CGAA ICCCUUGA	990	CCAAGAGC C ACGUCUCU	3769
2340	UAGAGACG CUGAUGAG GCCGUUAGGC CGAA IGCUCUUG	991	CAAGAGCC A CGUCUCUA	3770

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2345	CAAGGUAG CUGAUGAG GCCGUUAGGC CGAA IACGUGGC	992	GCCACGUC U CUACCUUG	3771
2347	GUCAAGGU CUGAUGAG GCCGUUAGGC CGAA IAGACGUG	993	CACGUCUC U ACCUUGAC	3772
2350	UCUGUCAA CUGAUGAG GCCGUUAGGC CGAA IUAGAGAC	994	GUCUCUAC C UUGACAGA	3773
2351	GUCUGUCA CUGAUGAG GCCGUUAGGC CGAA IGUAGAGA	997	UCUCUACC U UGACAGAC	3774
2356	UGGAGGUC CUGAUGAG GCCGUUAGGC CGAA IUCAAGGU	995	ACCUUGAC A GACCUCCA	3775
2360	CGGCUGGA CUGAUGAG GCCGUUAGGC CGAA IUCUGUCA	997	UGACAGAC C UCCAGCCG	3776
2361	ACGGCUGG CUGAUGAG GCCGUUAGGC CGAA IGUCUGUC	998	GACAGACC U CCAGCCGU	3777
2363	GUACGGCU CUGAUGAG GCCGUUAGGC CGAA IAGGCUGG	999	CAGACCUC C AGCCGUAC	3778
2364	UGUACGGC CUGAUGAG GCCGUUAGGC CGAA IGAGGCUU	1000	AGACCUCC A GCCGUACA	3779
2367	GCAUGUAC CUGAUGAG GCCGUUAGGC CGAA ICUGGAGG	1001	CCUCCAGC C GUACAUGC	3780
2372	CUGUCGCA CUGAUGAG GCCGUUAGGC CGAA IUACGGCU	1002	AGCCGUAC A UGCGACAG	3781
2379	GCCACGAAC CUGAUGAG GCCGUUAGGC CGAA IUCGCAUG	1003	CAUGCGAC A GUUCGUGG	3782
2389	UGCAGGUG CUGAUGAG GCCGUUAGGC CGAA ICCACGAA	1004	UUCGUGGC U CACCUGCA	3783
2391	CCUGCAGG CUGAUGAG GCCGUUAGGC CGAA IAGCCACG	1005	CGUGGCUC A CCUGCAGG	3784
2393	CUCCUGCA CUGAUGAG GCCGUUAGGC CGAA IUGAGCCA	1006	UGGCUCAC C UGCAGGAG	3785
2394	UCUCCUGC CUGAUGAG GCCGUUAGGC CGAA IGUGAGCC	1007	GGCUCACC U GCAGGAGA	3786
2397	UGGUCUCC CUGAUGAG GCCGUUAGGC CGAA ICAGGUGA	1008	UCACCUGC A GGAGACCA	3787
2404	AGCGGGCU CUGAUGAG GCCGUUAGGC CGAA IUCUCCUG	1009	CAGGAGAC C AGCCCGCU	3788
2405	CAGCGGGC CUGAUGAG GCCGUUAGGC CGAA IGUCUCCU	1010	AGGAGACC A GCCCGCUG	3789
2408	CCUCAGCG CUGAUGAG GCCGUUAGGC CGAA ICUGGUCU	1011	AGACCAGC C CGCUGAGG	3790
2409	CCUUCAGC CUGAUGAG GCCGUUAGGC CGAA IGCUGGUC	1012	GACCAGCC C GCUGAGGG	3791
2412	CAUCCUUC CUGAUGAG GCCGUUAGGC CGAA ICGGGUGG	1013	CAGCCCGC U GAGGGAUG	3792
2423	AUGACGAC CUGAUGAG GCCGUUAGGC CGAA ICAUCCUU	1014	AGGGAUGC C GUCGUCAU	3793
2429	CUGCUGGA CUGAUGAG GCCGUUAGGC CGAA IAUGACGG	1015	CCGUGGUC A UUGAGCAG	3794
2436	AGGAGCUC CUGAUGAG GCCGUUAGGC CGAA ICUGCUGG	1016	CAUUGAGC A GAGGCUCU	3795
2441	CAGGGAGG CUGAUGAG GCCGUUAGGC CGAA ICUCUGCU	1017	AGCAGAGC U CCUCCCUG	3796
2444	UUCAGGGA CUGAUGAG GCCGUUAGGC CGAA IAGCCUCU	1018	CAGAGCUC C UCCCUGAA	3797
2444	AUUCAGGG CUGAUGAG GCCGUUAGGC CGAA IGAGCCUCU	1019	AGAGCUCC U CCCUGAAU	3798
2446	UCAUUCAG CUGAUGAG GCCGUUAGGC CGAA IAGGAGCU	1020	AGCUCCUC C CUGAAUGA	3799
2447	CUCAUUCA CUGAUGAG GCCGUUAGGC CGAA IGAGGAGC	1021	GCUCCUCC C UGAAUGAG	3800
2448	CCUCAUUC CUGAUGAG GCCGUUAGGC CGAA IGGAGGAG	1022	CUCCUCCC U GAAUGAGG	3801
2458	GCACUGCU CUGAUGAG GCCGUUAGGC CGAA ICCUCAUU	1023	AAUGAGGC C AGCAGGGG	3802
2459	GGCACUGC CUGAUGAG GCCGUUAGGC CGAA IGCCUCAU	1024	AUGAGGCC A GCAGGGGC	3803
2467	GAGGCCAC CUGAUGAG GCCGUUAGGC CGAA ICUGGCCU	1025	AGGCCAGC A GGGGCCUC	3804
2468	GUGGAAGA CUGAUGAG GCCGUUAGGC CGAA ICCACGGC	1026	GCAGGGGC C UGUCGAC	3805
2469	CGUCGAAG CUGAUGAG GCCGUUAGGC CGAA IGCCACUG	1027	CAGGGGCC U GUUCGACG	3806
2471	GACGUCGA CUGAUGAG GCCGUUAGGC CGAA IAGGCCAC	1028	GGGGCCUG U CGACGGC	3807
2480	GCGUAGGA CUGAUGAG GCCGUUAGGC CGAA IACGUCGA	1029	UCGACGGC U CCCACGGC	3808
2484	GAAGCGUA CUGAUGAG GCCGUUAGGC CGAA IAAGACGU	1020	ACGGCCUC C UACGUUGC	3809
2484	UGAAGCGU CUGAUGAG GCCGUUAGGC CGAA IGAAGACG	1021	CCGUCUCC U ACGCUCA	3810
2489	GCACAUGA CUGAUGAG GCCGUUAGGC CGAA ICGUAGGA	1022	UCCUACGC U UCAUGUGC	3811
2491	GUGGCACA CUGAUGAG GCCGUUAGGC CGAA IAAGCGCA	1023	UACGCUUC A UGUGCCAU	3812
2494	GGCGUGGU CUGAUGAG GCCGUUAGGC CGAA ICACAUGA	1024	CCAUGUGC C ACGACGCC	3813
2499	CGGCGUGG CUGAUGAG GCCGUUAGGC CGAA IGCACAUG	1025	CAUGUGCC A CGACGCCG	3814
2501	CACGGCGU CUGAUGAG GCCGUUAGGC CGAA IUGGCACA	1026	UGUGCCAC G ACGCCGUG	3815
2502	GCACGGCG CUGAUGAG GCCGUUAGGC CGAA IGCCCCAC	1037	GUGCCACC A CGCCGUGG	3816
2506	AUGCGCAC CUGAUGAG GCCGUUAGGC CGAA ICGUGGUG	1038	CACCACGC C GUGCGCAU	3817

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2513	GCCCCUGA CUGAUGAG GCCGUUAGGC CGAA ICGCACGG	1039	CCGUGCGC A UCAGGGGC	3818
2517	CUUGCCCC CUGAUGAG GCCGUUAGGC CGAA IAUGCGCA	1040	UGCGCAUC A GGGGCAAG	3819
2520	GUAGGACU CUGAUGAG GCCGUUAGGC CGAA ICCCCUGA	1041	UCAGGGGC A AGUCCUAC	3820
2527	UGGACGUA CUGAUGAG GCCGUUAGGC CGAA IACUUGCC	1042	GGCAAGUC C UACGUCCA	3821
2528	CUGGACGU CUGAUGAG GCCGUUAGGC CGAA IGACUUGC	1043	GCAAGUCC U ACGUCCAG	3822
2534	CUGGCACU CUGAUGAG GCCGUUAGGC CGAA IACGUAGG	1044	CCUAGGUC C AGUGCCAG	3823
2536	CCUGGCAC CUGAUGAG GCCGUUAGGC CGAA IGACGUAG	1045	CUACGUCC A GUGCCAGG	3824
2540	GAUCCCCU CUGAUGAG GCCGUUAGGC CGAA ICACUGGA	1046	UCCAGUGC C AGGGAUCC	3825
2541	GGAUCCCC CUGAUGAG GCCGUUAGGC CGAA IGCACUGG	1047	CCAGUGCC A GGGGAUCC	3826
2549	GCCCUGCG CUGAUGAG GCCGUUAGGC CGAA IAUCCCCU	1048	AGGGAUCC C CGCAGGGC	3827
2550	AGCCCUGC CUGAUGAG GCCGUUAGGC CGAA IGAUCCCC	1049	GGGAUCCC C GCAGGGCU	3828
2553	UGGAGCCC CUGAUGAG GCCGUUAGGC CGAA ICGGGAUC	1050	GAUCCCGC A GGGCUCCA	3829
2558	GAGGAUGG CUGAUGAG GCCGUUAGGC CGAA ICCCUGCG	1051	CGCAGGGC U CCAUCCUC	3830
2560	GAGAGGAU CUGAUGAG GCCGUUAGGC CGAA IAGCCUG	1052	CAGGGCUC C AUCCUCUG	3831
2561	GGAGAGGA CUGAUGAG GCCGUUAGGC CGAA IGAGCCUG	1053	AGGGCUCC A UCCUCUCC	3832
2564	CGUGGAGA CUGAUGAG GCCGUUAGGC CGAA IAUGGAGC	1054	GGUCCAUC C UCUCCACG	3833
2565	GCGUGGAG CUGAUGAG GCCGUUAGGC CGAA IGAUGGAG	1055	CUCCAUCC U CUCCACGC	3834
2567	CAGCGUGG CUGAUGAG GCCGUUAGGC CGAA IAGGAUGG	1056	CCAUCCUC U CCACGCUG	3835
2569	AGCAGCGU CUGAUGAG GCCGUUAGGC CGAA IAGAGGAU	1057	AUCCUCUC C ACGCUGCU	3836
2571	GAGCAGCG CUGAUGAG GCCGUUAGGC CGAA IGAGAGGA	1058	UCCUCUCC A CGCUGCUC	3837
2574	UGGCAGCG CUGAUGAG GCCGUUAGGC CGAA ICGUGGAG	1059	CUCCACGC U GCUGCA	3838
2577	GGCUGCAG CUGAUGAG GCCGUUAGGC CGAA ICAGCGUG	1060	CACGCUGC U GCUGCAGCC	3839
2579	CAGGCUGC CUGAUGAG GCCGUUAGGC CGAA IAGCAGCG	1061	CGCUGCUC U GCAGCUG	3840
2582	GCACAGGC CUGAUGAG GCCGUUAGGC CGAA ICAGAGCA	1062	UGCUGCUC A GCCUGUGC	3841
2585	GUAGCACA CUGAUGAG GCCGUUAGGC CGAA ICUGCAGA	1063	UCUGCAGC C UGUGCUAC	3842
2586	CGUAGCAC CUGAUGAG GCCGUUAGGC CGAA IGCUGCAG	1064	CUGCAGCC U GUGCUACG	3843
2591	GUCGCCGU CUGAUGAG GCCGUUAGGC CGAA ICACAGGC	1065	GCCUGUGC U ACGGCGAC	3844
2600	GUUCUCCA CUGAUGAG GCCGUUAGGC CGAA IUCGCCGU	1066	ACGGCGAC A UGGAGAAC	3845
2609	AAACAGGU CUGAUGAG GCCGUUAGGC CGAA IUUCUCCA	1067	UGGAGAAC A AGCUGUUU	3846
2613	CCGCAAAC CUGAUGAG GCCGUUAGGC CGAA ICUUUGUU	1068	GAACAAGC U GUUUGCGG	3847
2640	GCAGGAGC CUGAUGAG GCCGUUAGGC CGAA ICCCGUCC	1069	GGACGGGC U GCUCCUGC	3848
2643	AAGGCAGG CUGAUGAG GCCGUUAGGC CGAA ICAGCCCG	1070	CGGGCUGC U CCUGCGUU	3849
2645	CAAAGGCA CUGAUGAG GCCGUUAGGC CGAA IAGCAGCC	1071	GGCUGCUC C UGCGUUG	3850
2646	CCAAAGGC CUGAUGAG GCCGUUAGGC CGAA IGAGCAGC	1072	GCUGCUCC U GCGUUGG	3851
2656	CACCAACA CUGAUGAG GCCGUUAGGC CGAA IAAAUCAU	1073	AUGAUUUC U GUUGGUG	3852
2677	AGGUGAGG CUGAUGAG GCCGUUAGGC CGAA IUCACCAA	1074	UUGGUGAC A CCUCACCU	3853
2679	UGAGGUGA CUGAUGAG GCCGUUAGGC CGAA IUGUCACC	1075	GGUGACAC C UCACUCA	3854
2680	GUGAGGUG CUGAUGAG GCCGUUAGGC CGAA IGUGUCAC	1076	GUGACACC U CACUUCAC	3855
2682	GGGUGAGG CUGAUGAG GCCGUUAGGC CGAA IAGGUGUC	1077	GACACCUC A CCUCACCC	3856
2684	GUGGGUGA CUGAUGAG GCCGUUAGGC CGAA IUGAGGUG	1078	CACCUCAC C UCACCCAC	3857
2685	CGUGGGUG CUGAUGAG GCCGUUAGGC CGAA IGUGAGGU	1079	ACCUCACC U CACCCACG	3858
2687	CGCGUGGG CUGAUGAG GCCGUUAGGC CGAA IAGGUGAG	1080	CUCACCUC A CCCACGCG	3859
2689	UUCGCGUG CUGAUGAG GCCGUUAGGC CGAA IUGAGGUG	1081	CACCUCAC C CACGCGAA	3860
2690	UUUCGCGU CUGAUGAG GCCGUUAGGC CGAA IGUGAGGU	1082	ACCUCACC C ACGCGAAA	3861
2691	UUUUCGCG CUGAUGAG GCCGUUAGGC CGAA IGGUGAGG	1083	CCUCACCC A CGCGAAAA	3862
2701	CUGAGGAA CUGAUGAG GCCGUUAGGC CGAA IUUUUCGC	1084	GCGAAAAC C UUCUCAG	3863
2702	CCUGAGGA CUGAUGAG GCCGUUAGGC CGAA IGUUUUCG	1085	CGAAAACC U UCCUCAGG	3864

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2705	GGUCCUGA CUGAUGAG GCCGUUAGGC CGAA IAAGGUUU	1086	AAACCUUC C UCAGGACC	3865
2706	GGGUCCUG CUGAUGAG GCCGUUAGGC CGAA IGAAGGUU	1087	AACCUUCC U CAGGACC	3866
2708	CAGGGUCC CUGAUGAG GCCGUUAGGC CGAA IAGGAAGG	1088	CCUUCCUC A GGACCCUG	3867
2713	CGGACCAG CUGAUGAG GCCGUUAGGC CGAA IUCCUGAG	1089	CUCAGGAC C CUGGUCCG	3868
2714	UCGGACCA CUGAUGAG GCCGUUAGGC CGAA IGUCCUGA	1090	UCAGGACC C UGGUCGA	3869
2715	CUCGGACC CUGAUGAG GCCGUUAGGC CGAA IGGUCCUG	1091	CAGGACCC U GGUCCGAG	3870
2720	GACACCUC CUGAUGAG GCCGUUAGGC CGAA IADCAGGG	1092	CCCUGGUC C GAGGUGUC	3871
2729	AUACUCAG CUGAUGAG GCCGUUAGGC CGAA IACACCUC	1093	GAGGUGUC C CUGAGUAU	3872
2730	CAUACUCA CUGAUGAG GCCGUUAGGC CGAA IGACACCU	1094	AGGUGUCC C UGAGUAUG	3873
2731	CCAUACUC CUGAUGAG GCCGUUAGGC CGAA IGGACACC	1095	GGUGUCCC U GAGUAUGG	3874
2741	CACCACGC CUGAUGAG GCCGUUAGGC CGAA IUCAUACU	1096	AGUAUGGC U GCGUGGUG	3875
2753	CUUCCGCA CUGAUGAG GCCGUUAGGC CGAA IUUCACCA	1097	UGGUGAAU U UGCGGAAG	3876
2764	UUCACCAC CUGAUGAG GCCGUUAGGC CGAA IUCUUCCG	1098	CGGAAGAC A GUGGUGAA	3877
2774	UACAGGGA CUGAUGAG GCCGUUAGGC CGAA IUUCACCA	1099	UGGUGAAC U UCCCUGUA	3878
2777	UUCUACAG CUGAUGAG GCCGUUAGGC CGAA IAAGUUCA	1100	UGAACUUC C CUGUAGAA	3879
2778	CUUUACA CUGAUGAG GCCGUUAGGC CGAA IGAAGUUC	1101	GAACUUC C CUGUAGAAG	3880
2779	UCUUUACA CUGAUGAG GCCGUUAGGC CGAA IGGAAGUU	1102	AACUUCCC U GUAGAAGA	3881
2794	CCACCCAG CUGAUGAG GCCGUUAGGC CGAA ICCUUGGU	1103	GACGAGGC C CUGGGUGG	3882
2795	GCCACCCA CUGAUGAG GCCGUUAGGC CGAA IGCCUUGGU	1104	ACGAGGCC C UGGGUGG	3883
2796	UGCCACCC CUGAUGAG GCCGUUAGGC CGAA IGGCCUUGG	1105	CGAGGCCC U GGGUGGCA	3884
2804	AAAAGCCG CUGAUGAG GCCGUUAGGC CGAA ICCACCCA	1106	UGGUGGCC A CGGCUUUU	3885
2809	UGAACAAA CUGAUGAG GCCGUUAGGC CGAA ICCGUGCC	1107	GGCACGGC U UUUGUUCA	3886
2817	CCGGCAUC CUGAUGAG GCCGUUAGGC CGAA IAACAAAA	1108	UUUUGUUC A GAUGCCGG	3887
2823	CGUGGCC CUGAUGAG GCCGUUAGGC CGAA ICAUCUGA	1109	UCAGAUGC C GGCCACG	3888
2827	AGGCCGUG CUGAUGAG GCCGUUAGGC CGAA ICCGGCAU	1110	AUGCCGGC C CACGGCCU	3889
2828	UAGGCCGU CUGAUGAG GCCGUUAGGC CGAA IGCCGGCA	1111	UGCCGGCC C ACGGCCUA	3890
2829	AUAGGCCG CUGAUGAG GCCGUUAGGC CGAA IGGCCGGC	1112	GCCGGCCC A CGGCCUAU	3891
2834	GGGGAAUA CUGAUGAG GCCGUUAGGC CGAA ICCGUGGG	1113	CCCACGGC C UAUUCCCC	3892
2835	AGGGGAAU CUGAUGAG GCCGUUAGGC CGAA IGCCGUGG	1114	CCACGGCC U AUUCCCCU	3893
2840	GCACCAGG CUGAUGAG GCCGUUAGGC CGAA IAAUAGGC	1115	GCCUAUUC C CCUGGUGC	3894
2841	CGCACCAG CUGAUGAG GCCGUUAGGC CGAA IGAAUAGG	1116	CCUAUUCC C CUGGUGC	3895
2842	CCGCACCA CUGAUGAG GCCGUUAGGC CGAA IGGAAUAG	1117	CUAUUCCC C UGGUGCGG	3896
2843	GCCGCACC CUGAUGAG GCCGUUAGGC CGAA IGGGAAUA	1118	UAUUCCCC U GGUGCGGC	3897
2852	CAGCAGCA CUGAUGAG GCCGUUAGGC CGAA ICCGCACC	1119	GGUGCGGC C UGCUGCUG	3898
2853	CCAGCAGC CUGAUGAG GCCGUUAGGC CGAA IGCCGCAC	1120	GUGCGGCC U GCUGCUGG	3899
2856	UAUCCAGC CUGAUGAG GCCGUUAGGC CGAA ICAGCCCG	1121	CGGCCUGC U GCUGGAUA	3900
2859	GGGUAUCC CUGAUGAG GCCGUUAGGC CGAA ICAGCAGG	1122	CCCGGCUGC U GGAUACC	3901
2866	AGGUCCG CUGAUGAG GCCGUUAGGC CGAA ICACCCAG	1123	CUGGAUAC C GGACCCU	3902
2867	CAGGUCC CUGAUGAG GCCGUUAGGC CGAA IGUACCCA	1124	UGGAUACC C GGACCCUG	3903
2872	ACCCCAG CUGAUGAG GCCGUUAGGC CGAA ICCCGGGU	1125	ACCCGGAC C CUGGAGGU	3904
2873	CACCCCA CUGAUGAG GCCGUUAGGC CGAA IGUCCGGG	1126	CCCGGACC C UGGAGGUG	3905
2874	GCACCCUC CUGAUGAG GCCGUUAGGC CGAA IGGCCCGG	1127	CCGGACCC U GGAGGUGG	3906
2883	AGUCGCUC CUGAUGAG GCCGUUAGGC CGAA ICACCCCC	1128	GGAGGUGC A GAGCGACU	3907
2891	GCUGGAGU CUGAUGAG GCCGUUAGGC CGAA IGCGCUCU	1129	AGAGCGAC U ACUCCAGC	3908
2894	AUAGCUGG CUGAUGAG GCCGUUAGGC CGAA IUGAGUCC	1130	GCGACUAC U CCAGCUAU	3909
2896	GCAUAGCU CUGAUGAG GCCGUUAGGC CGAA IAGUAGUC	1131	GACUACUC C AGCUAUGC	3910
2897	GGCAUAGC CUGAUGAG GCCGUUAGGC CGAA IGAGUAGU	1132	ACUACUCC A GCUAUGC	3911

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2900	CCGGGCAU CUGAUGAG GCCGUUAGGC CGAA ICUGGAGU	1133	ACUCCAGC U AUGCCCGG	3912
2905	GAGGUCCG CUGAUGAG GCCGUUAGGC CGAA ICAUAGCU	1134	AGCUAUGC C CGGACCUC	3913
2906	GGAGGUCC CUGAUGAG GCCGUUAGGC CGAA IGCAUAGC	1135	GCUAUGCC C GGACCUCC	3914
2911	CUGAUGGA CUGAUGAG GCCGUUAGGC CGAA IUCCGGGC	1136	GCCGGAC C UCCAUCAG	3915
2912	UCUGAUGG CUGAUGAG GCCGUUAGGC CGAA IGUCCGGG	1137	CCCGGACC U CCAUCAGA	3916
2914	GCUCUGAU CUGAUGAG GCCGUUAGGC CGAA IAGGUCCG	1138	CCGGACUC C AUCAGAGC	3917
2915	GGCUCUGA CUGAUGAG GCCGUUAGGC CGAA IGAGGUCC	1139	GGACCUCC A UCAGAGCC	3918
2918	ACUGGCUC CUGAUGAG GCCGUUAGGC CGAA IAUGGAGG	1140	CCUCCAUC A GAGCCAGU	3919
2923	GUGAGACU CUGAUGAG GCCGUUAGGC CGAA ICUCUGAU	1141	AUCAGAGC C AGUCUCAC	3920
2924	GGUGAGAC CUGAUGAG GCCGUUAGGC CGAA IGCUCUGA	1142	UCAGAGCC A GUCUCACC	3921
2928	UGAAGGUG CUGAUGAG GCCGUUAGGC CGAA IACUGGCU	1143	AGCCAGUC U CACCUUCA	3922
2930	GUUGAAGG CUGAUGAG GCCGUUAGGC CGAA IAGACUGG	1144	CCAGUCUC A CCUUCAAC	3923
2931	CGUUGAAG CUGAUGAG GCCGUUAGGC CGAA IUGAGACU	1145	AGUCUCAC C UUCAACGC	3924
2932	GCGUUGAA CUGAUGAG GCCGUUAGGC CGAA IGUGAGAC	1146	GUCUCACC U UCAACGGC	3925
2936	GCCGUCGU CUGAUGAG GCCGUUAGGC CGAA IAAGGUGA	1147	UCACCUUC A ACGGCGGC	3926
2939	GAAGCCGC CUGAUGAG GCCGUUAGGC CGAA IUUGAAGG	1148	CCUUCAAC C GCGGCUUC	3927
2945	AGCCUUGA CUGAUGAG GCCGUUAGGC CGAA ICCGCGGU	1149	ACCGCGGC U UCAAGGCU	3928
2948	CCCAGCCU CUGAUGAG GCCGUUAGGC CGAA IAAGCCGC	1150	GCCGCUUC A AGGCUGGG	3929
2953	UUCCUCCU CUGAUGAG GCCGUUAGGC CGAA ICCUUGAA	1151	UUCAAGGC U GGGAGGAA	3930
2963	GCGAGGCA CUGAUGAG GCCGUUAGGC CGAA IUUCCUCC	1152	GGAGGAAC A UGCGUCGG	3931
2972	AAAGAGUU CUGAUGAG GCCGUUAGGC CGAA ICGAGGCA	1153	UGCGUCGG A AACUCUUU	3932
2976	CCCCAAAG CUGAUGAG GCCGUUAGGC CGAA IUUUGCGA	1154	UGCGAAAC U CUUUGGGG	3933
2977	GACCCCAA CUGAUGAG GCCGUUAGGC CGAA IAGUUUGC	1155	GCAAACUC U UUGGGGUC	3934
2987	CAGCCGCA CUGAUGAG GCCGUUAGGC CGAA IACCCCAA	1156	UUGGGGUC U UGCGGCUG	3935
2994	GACAUUUC CUGAUGAG GCCGUUAGGC CGAA ICCGCAAG	1157	CUUGCGGC U GAAGUGUC	3936
3002	ACAGGCUG CUGAUGAG GCCGUUAGGC CGAA IACAUUUC	1158	GAAGUGUC A CAGCCUGU	3937
3005	AAACAGGC CUGAUGAG GCCGUUAGGC CGAA IUGACAUU	1159	AGUGUCAC A GCCUGUUU	3938
3007	CAGAAACA CUGAUGAG GCCGUUAGGC CGAA ICUGUGAC	1160	GUCACAGC C UGUUUCUG	3939
3009	CCAGAAAC CUGAUGAG GCCGUUAGGC CGAA IGCUGUGA	1161	UCACAGCC U GUUUCUGG	3940
3017	GCAAAUCC CUGAUGAG GCCGUUAGGC CGAA IAAACAGG	1162	CCUGUUUC U GGAUUUGC	3941
3024	UGUUCACU CUGAUGAG GCCGUUAGGC CGAA ICAAAUCC	1163	GGAUUUGC A GGUGAACA	3942
3032	CUGGAGGC CUGAUGAG GCCGUUAGGC CGAA IUUCACCU	1164	AGGUGAAC A GCCUCCAG	3943
3035	CCGCUGGA CUGAUGAG GCCGUUAGGC CGAA ICUGGUUCA	1165	UGAACAGC C UCCAGACG	3944
3036	CCCGCUGG CUGAUGAG GCCGUUAGGC CGAA IGCUGGUC	1166	GAACAGCC U CCAGACGG	3945
3038	CACCGUCU CUGAUGAG GCCGUUAGGC CGAA IAGGCUGG	1167	ACAGCCUC C AGACGGUG	3946
3039	ACACCGUC CUGAUGAG GCCGUUAGGC CGAA IGAGGCUG	1168	CAGCCUCC A GACGGUGU	3947
3050	GAUGUUGG CUGAUGAG GCCGUUAGGC CGAA ICACACGG	1169	CGGUGUGC A CCAACAUC	3948
3051	UGAUGUUG CUGAUGAG GCCGUUAGGC CGAA IUGCACAC	1170	GUGUGCAC C AACAUCUA	3949
3054	GUUGAUGU CUGAUGAG GCCGUUAGGC CGAA IGCGCACA	1171	GUGCACCA A CAUCUAC	3950
3056	CCUGUAGA CUGAUGAG GCCGUUAGGC CGAA IUCGGUGC	1172	GCACCAAC A UCUACAAG	3951
3059	GAUCUUGU CUGAUGAG GCCGUUAGGC CGAA IACGGUGG	1173	CCAACAUC U ACAAGAUC	3952
3062	GAGGAUCU CUGAUGAG GCCGUUAGGC CGAA ICAGAUGU	1174	ACAUCUAC A AGAUCUC	3953
3063	CAGGAGGA CUGAUGAG GCCGUUAGGC CGAA IACCUUGU	1175	ACAAGAUC C UCCUGCUG	3954
3064	GCAGGAGG CUGAUGAG GCCGUUAGGC CGAA IGACCUUG	1176	CAAGAUCC U CCUGCUGC	3955
3071	CUGCAGCA CUGAUGAG GCCGUUAGGC CGAA IAGGAUCU	1177	AGAUCCUC C UGCUGCAG	3956
3072	CCUGCAGC CUGAUGAG GCCGUUAGGC CGAA IGAGGAUC	1178	GAUCCUCC U GCUGCAGG	3957
3075	ACGCCUGC CUGAUGAG GCCGUUAGGC CGAA ICAGGAGG	1179	CCUCCUGC U GCAGGCGU	3958

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3078	UGUACGCC CUGAUGAG GCCGUUAGGC CGAA ICAGCAGG	1180	CCUGCUGC A GGCGUACA	3959
3086	GUGAAACC CUGAUGAG GCCGUUAGGC CGAA IUACGCCU	1181	AGGCGUAC A GGUUUCAC	3960
3093	CACAUGCG CUGAUGAG GCCGUUAGGC CGAA IAAACCUG	1182	CAGGUUUC A CGCAUGUG	3961
3097	AGCACACA CUGAUGAG GCCGUUAGGC CGAA ICGUGAAA	1183	UUUCACGC A UGUGUGCU	3962
3105	GGAGCUGC CUGAUGAG GCCGUUAGGC CGAA ICACACAU	1184	AUGUGUGC U GCAGCUCC	3963
3108	AUGGGAGC CUGAUGAG GCCGUUAGGC CGAA ICAGCACA	1185	UGUGCUGC A GCUCCCAU	3964
3111	GAAAUGGG CUGAUGAG GCCGUUAGGC CGAA ICUGCAGC	1186	GCUGCAGC U CCCAUUUC	3965
3113	AUGAAAUG CUGAUGAG GCCGUUAGGC CGAA IAGCUGCA	1187	UGCAGCUC C CAUUUCAU	3966
3114	GAUGAAAU CUGAUGAG GCCGUUAGGC CGAA IGAGCUGC	1188	GCAGCUCC C AUUUCAUC	3967
3115	UGAUGAAA CUGAUGAG GCCGUUAGGC CGAA IGGAGCUG	1189	CAGCUCCC A UUUCAUCA	3968
3120	CUUGCUGA CUGAUGAG GCCGUUAGGC CGAA IAAAUGGG	1190	CCCAUUUC A UCAGCAAG	3969
3122	AAACUGGC CUGAUGAG GCCGUUAGGC CGAA IAUGAAAU	1191	AUUUCAUC A GCAAGUUU	3970
3128	UCCAAACU CUGAUGAG GCCGUUAGGC CGAA ICUGAUGA	1192	UCAUCAGC A AGUUGGA	3971
3140	AAAUGUGG CUGAUGAG GCCGUUAGGC CGAA ILUCUUCC	1193	GGAAGAAC C CCACAUUU	3972
3141	AAAAUGUG CUGAUGAG GCCGUUAGGC CGAA IGUUCUUC	1194	GAAGAACC C CACAUUUU	3973
3142	AAAAAUGU CUGAUGAG GCCGUUAGGC CGAA IGGUUCUU	1195	AAGAACCC C ACAUUUUU	3974
3143	GAAAAAUG CUGAUGAG GCCGUUAGGC CGAA IGGGUUCU	1196	AGAACCCC A CAUUUUUC	3975
3145	AGGAAAAA CUGAUGAG GCCGUUAGGC CGAA IUGGGUUC	1197	AACCCCAC A UUUUUCCU	3976
3150	GACGCGCA CUGAUGAG GCCGUUAGGC CGAA IAAAAAUG	1198	CAUUUUUC C UGCGCGUC	3977
3152	UGACGCGC CUGAUGAG GCCGUUAGGC CGAA IGAAAAAU	1199	AUUUUUCC U GCGCGUCA	3978
3161	GUCGCGAGA CUGAUGAG GCCGUUAGGC CGAA IACGCGCA	1200	UGCGCGUC A UCUCUGAU	3979
3164	CUGUCAG CUGAUGAG GCCGUUAGGC CGAA IAUGACGC	1201	GCGUCAUC U CUGACACG	3980
3166	GCCGUGUC CUGAUGAG GCCGUUAGGC CGAA IAGAUGAC	1202	GUCAUCUC U GACACGGC	3981
3170	GGAGGCCG CUGAUGAG GCCGUUAGGC CGAA IUCAGAGA	1203	UCUCUGAC A CGGCCUCC	3982
3175	CAGAGGCA CUGAUGAG GCCGUUAGGC CGAA ICCGUGUC	1204	GACACGGC C UGCCUCUG	3983
3176	GCAGAGGC CUGAUGAG GCCGUUAGGC CGAA IGCCGUGU	1205	ACACGGCC U GCCUCUGC	3984
3178	UAGCGAG CUGAUGAG GCCGUUAGGC CGAA IAGGCCGU	1206	ACGGCCUC C CUCUGUA	3985
3179	GUAGCAGA CUGAUGAG GCCGUUAGGC CGAA IGAGGCCG	1207	CGGCCUCC C UCUGCUAC	3986
3180	AGUAGCAG CUGAUGAG GCCGUUAGGC CGAA IGGAGGCC	1208	GGCCUCCC U CUGCUACU	3987
3182	GGAGUAGC CUGAUGAG GCCGUUAGGC CGAA IAGGAGG	1209	CCUCCCUC U GCUACUCC	3988
3185	GAUGGAGU CUGAUGAG GCCGUUAGGC CGAA ICAGAGG	1210	CCCUCUGC U ACUCCAUC	3989
3188	CAGGAUGG CUGAUGAG GCCGUUAGGC CGAA IUAGCAGA	1211	UCUGCUAC U CCAUCCUG	3990
3190	UUCAGGAU CUGAUGAG GCCGUUAGGC CGAA IAGUAGCA	1212	UGCUACUC C AUCCUGAA	3991
3191	UUUCAGGA CUGAUGAG GCCGUUAGGC CGAA IGAGUAGC	1213	GCUACUCC A UCCUGAAA	3992
3194	GGCUUUCA CUGAUGAG GCCGUUAGGC CGAA IAUGGAGU	1214	ACUCCAUC C UGAAAGCC	3993
3195	UGGCUUUC CUGAUGAG GCCGUUAGGC CGAA IGAUGGAG	1215	UCCAUCC U GAAAGCCA	3994
3202	GCGUUCUU CUGAUGAG GCCGUUAGGC CGAA ICUUUCAG	1217	CUGAAAGC C AAGAACGC	3995
3203	UGCGUUCU CUGAUGAG GCCGUUAGGC CGAA IGCUUUCA	1222	UGAAAGCC A AGAACGCA	3996
3211	GACAUCCC CUGAUGAG GCCGUUAGGC CGAA ICGUUCUU	1218	AAGAACGC A GGGAUGUC	3997
3222	UGGCCCCC CUGAUGAG GCCGUUAGGC CGAA ICGACAUC	1219	GAUGUCGG U GGGGGCCA	3998
3229	GCGCCCUU CUGAUGAG GCCGUUAGGC CGAA ICCCCCAG	1220	CUGGGGGC C AAGGGCGC	3999
3230	GGCGCCCU CUGAUGAG GCCGUUAGGC CGAA IGCCCCCA	1221	UGGGGGCC A AGGGCGGC	4000
3233	GGGCCGGC CUGAUGAG GCCGUUAGGC CGAA IGCCCUU	1222	AAGGGCGC C GGCGGCCC	4001
3241	AGAGGCCC CUGAUGAG GCCGUUAGGC CGAA IGGGCGCC	1223	GGCGGCGC C GGCCCUCU	4002
3245	GGGCAGAG CUGAUGAG GCCGUUAGGC CGAA ICCGGCGG	1224	CCGCCGGC C CUCUGCCC	4003
3246	AGGGCAGA CUGAUGAG GCCGUUAGGC CGAA IGCCGGCG	1225	CGCCGGCC C UCUGCCCU	4004
3247	GAGGGCAG CUGAUGAG GCCGUUAGGC CGAA IGGCCGGC	1226	GCCGGCCC U CUGCCCUC	4005

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3249	CGGAGGGC CUGAUGAG GCCGUUAGGC CGAA IAGGGCCG	1227	CGGCCCUC U GCCCUCCG	4006
3252	CCUCGGAG CUGAUGAG GCCGUUAGGC CGAA ICAGAGGG	1228	CCCUCUGC C CUCCGAGG	4007
3253	GCCUCGGA CUGAUGAG GCCGUUAGGC CGAA IGCAGAGG	1229	CCUCUGCC C UCCGAGGC	4008
3254	GGCCUCGG CUGAUGAG GCCGUUAGGC CGAA IGCUCAGAG	1230	CUCUGCCC U CCGAGGCC	4009
3256	ACGGCCUC CUGAUGAG GCCGUUAGGC CGAA IAGGGCAG	1231	CUGCCUC C GAGGCCGU	4010
3262	CACUGCAC CUGAUGAG GCCGUUAGGC CGAA ICCUCGGA	1232	UCCGAGGC C GUGCAGUG	4011
3267	ACAGCCAC CUGAUGAG GCCGUUAGGC CGAA ICACGGCC	1233	GCCGUGC A GUGGCUGU	4012
3272	GGUGGCAC CUGAUGAG GCCGUUAGGC CGAA IGCACUGC	1234	GCAGUGC U GUGCCACC	4013
3278	UGCUUGGU CUGAUGAG GCCGUUAGGC CGAA ICACAGCC	1235	GGCUGUGC C ACCAAGCA	4014
3279	AUGCUUGG CUGAUGAG GCCGUUAGGC CGAA IGCACAGC	1236	GCUGUGCC A CCAAGCAU	4015
3281	GAAUGCUU CUGAUGAG GCCGUUAGGC CGAA IUGGCACA	1237	UGUGCCAC C AAGCAUUC	4016
3282	GGAAUGCU CUGAUGAG GCCGUUAGGC CGAA IGUGCACA	1238	GUGCCACC A AGCAUUCC	4017
3286	AGCAGGAA CUGAUGAG GCCGUUAGGC CGAA ICUUGGUG	1239	CACCAAGC A UUCCUGCU	4018
3290	CUUGAGCA CUGAUGAG GCCGUUAGGC CGAA IAAUGCUU	1240	AAGCAUUC C UGCUCAAG	4019
3291	GCUUGAGC CUGAUGAG GCCGUUAGGC CGAA IGAAUGCU	1241	AGCAUUCC U GCUCAAGC	4020
3294	UCAGCUUG CUGAUGAG GCCGUUAGGC CGAA ICAGGAAU	1242	AUUCCUGC U CAAGCUGA	4021
3296	AGUCAGCU CUGAUGAG GCCGUUAGGC CGAA IAGGAGGA	1243	UCCUGCUC A AGCUGACU	4022
3300	GUGAGUC CUGAUGAG GCCGUUAGGC CGAA ICUUGAGC	1244	GCUCAAGC U GACUGAC	4023
3304	CGGUGUCG CUGAUGAG GCCGUUAGGC CGAA IUCAGUUU	1245	AAGCUGAC U GACACCG	4024
3307	UGACAGG CUGAUGAG GCCGUUAGGC CGAA IUCGAGUC	1246	GACUGAC A CCGUGUCA	4025
3311	GGUGACAC CUGAUGAG GCCGUUAGGC CGAA IUGUCGAG	1247	CUGACAC C GUGUCACC	4026
3317	CAGGUAGG CUGAUGAG GCCGUUAGGC CGAA IACACGGU	1248	ACCGUGUC A CCUACGUG	4027
3319	GGCACGUA CUGAUGAG GCCGUUAGGC CGAA IUGACACG	1249	CGUGUCAC C UACGUGCC	4028
3320	UGGCACGU CUGAUGAG GCCGUUAGGC CGAA IGUGACAC	1250	GUGUCACC U ACGUGCCA	4029
3327	CCAGGAGU CUGAUGAG GCCGUUAGGC CGAA ICACGUAG	1251	CUACGUGC C ACUCCUGG	4030
3328	CCCAGGAG CUGAUGAG GCCGUUAGGC CGAA IGCACGUA	1252	UACGUGCC A CUCCUGGG	4031
3330	ACCCCAGG CUGAUGAG GCCGUUAGGC CGAA IUGGCACG	1253	CGUGCCAC U CCUGGGU	4032
3332	UGACCCCA CUGAUGAG GCCGUUAGGC CGAA IAGUGGCA	1254	UGCCACUC C UGGGUCA	4033
3333	GUGACCCC CUGAUGAG GCCGUUAGGC CGAA IGAGUGGC	1255	GCCACUCC U GGGUCAC	4034
3340	GUCCUGAG CUGAUGAG GCCGUUAGGC CGAA IACCCCAG	1256	CUGGGUCC A CUCAGGAC	4035
3342	CUGUCCUG CUGAUGAG GCCGUUAGGC CGAA IUGACCCC	1257	GGGUCCAC U CAGGACAG	4036
3344	GGCUGUCC CUGAUGAG GCCGUUAGGC CGAA IAGUGACC	1258	GGUCCACU C AGGACAGCC	4037
3349	GUCCGGGC CUGAUGAG GCCGUUAGGC CGAA IUCCCUGAG	1259	CCCAGGAG A GCCCAGAC	4038
3352	CGGCCCUG CUGAUGAG GCCGUUAGGC CGAA ICUGUUCCU	1260	AGGACAGC C CAGACGCA	4039
3353	CUGCGUCU CUGAUGAG GCCGUUAGGC CGAA IGCUGUUCC	1261	GGACAGCC C AGACGCAG	4040
3354	GCUGCGUC CUGAUGAG GCCGUUAGGC CGAA IGGCUGUC	1262	GACAGCCC A GACGCAGC	4041
3360	GACUCAGC CUGAUGAG GCCGUUAGGC CGAA ICGGCUGG	1263	CGAGACGC A GCGUGAGCC	4042
3363	CCCGACUC CUGAUGAG GCCGUUAGGC CGAA ICCUGCGUC	1264	GACGCAGC U GAGUCGGA	4043
3375	UCCCCGGG CUGAUGAG GCCGUUAGGC CGAA ICCCCGGA	1265	CCGGAAGC U CCCGGGA	4044
3377	CGCCCCGG CUGAUGAG GCCGUUAGGC CGAA IAGCUCCC	1266	GGAAGCUC C CGGGACG	4045
3378	UCGCCCCG CUGAUGAG GCCGUUAGGC CGAA IGAGCUCC	1267	GAAGCUCC C GGGACGA	4046
3390	GGGCAGCC CUGAUGAG GCCGUUAGGC CGAA ICGCCGCC	1268	GAGCACGC U GACUGCCC	4047
3394	UCCCAGGC CUGAUGAG GCCGUUAGGC CGAA IUCAGCGU	1269	ACGCUGAC U GCCCUGGA	4048
3397	GCCCCCAG CUGAUGAG GCCGUUAGGC CGAA ICAGCCAG	1270	CUGACUGC C CUGGAGGC	4049
3398	GGCCCUCA CUGAUGAG GCCGUUAGGC CGAA ICCAGCCA	1271	UGACUGCC C UGGAGGCC	4050
3399	CGGCCCUC CUGAUGAG GCCGUUAGGC CGAA IGCCAGCC	1272	GACUGCCC U GGAGGCCG	4051
3406	UUGGCUGC CUGAUGAG GCCGUUAGGC CGAA ICCUCCAG	1273	CUGGAGGC C GCAGCCAA	4052

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3409	GGGUUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCCUC	1274	GAGGCCGC A GCCAACCC	4053
3412	GCCGGGUU	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCCGGC	1275	GCCGCAGC C AACCCGGC	4054
3413	UGCCGGGU	CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGCGG	1276	CCGCAGCC A ACCCGGCA	4055
3416	CAGUGCCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGCUG	1277	CAGCCAAC C CGGCACUG	4056
3417	GCAGUGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGGCU	1278	AGCCAACC C GGCACUGC	4057
3421	GAGGGCAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGCUUJ	1279	AACCCGGC A CUGCCCUC	4058
3423	CUGAGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCGGG	1280	CCCGGCAC U GCCCUCAG	4059
3426	AGUCUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGCC	1281	GGCACUGC C CUCAGACU	4060
3427	AAGUCUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGUGC	1282	GCACUGCC C UCAGACUU	4061
3428	GAAGUCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAGUG	1283	CACUGCCC U CAGACUUC	4062
3430	UUGAAGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGCAG	1284	CUGCCCUC A GACUUCAA	4063
3434	GGUCUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUGAGG	1285	CCUCAGAC U UCAAGACC	4064
3437	GAUGGUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUCUG	1286	CAGACUUC A AGACCAUC	4065
3442	UCCAGGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUUGAA	1287	UUCAAGAC C AUCCUGGA	4066
3443	GUCCAGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGUCUUGA	1288	UCAAGACC A UCCUGGAC	4067
3446	UCAGUCCA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGUCU	1289	AGACCAUC C UGGACUGA	4068
3447	AUCAGUCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGGUC	1290	GACCAUCC U GGACUGAU	4069
3452	UGCCAUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAGGA	1291	UCCUGGAC U GAUGGCCA	4070
3459	GGGCGGGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUCAG	1292	CUGAUGGC C AUCCGCCC	4071
3460	UGGGCGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAUCA	1293	UGAUGGCC A UCCGCCCA	4072
3462	UGUGGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCCAU	1294	AUGGCCAC C CGCCCACA	4073
3463	CUGUGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGCCA	1295	UGGCCACC C GCCCACAG	4074
3466	UGCCUGUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGUGG	1296	CCACCCGC C CACAGCCA	4075
3467	CUGGCUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGGUG	1297	CACCCGCC C ACAGCCAG	4076
3468	CCUGGCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGGGU	1298	ACCCGCCC A CAGCCAGG	4077
3470	GGCCUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGCGG	1299	CCGCCCAC A GCCAGGCC	4078
3473	CUGGGCCU	CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGUGG	1300	CCCACAGC C AGGCCGAG	4079
3474	UCUGGGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUGUGG	1301	CCACAGCC A GGCCGAGA	4080
3478	CUGCUCUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGGCU	1302	AGCCAGGC C GAGAGCAG	4081
3485	CUGGUGUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUCGG	1303	CCGAGAGC A GACACCAG	4082
3489	GCUGCUGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUGCUC	1304	GAGCAGAC A CCAGCAGC	4083
3491	GGGCUGCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCUGC	1305	GCAGACAC C AGCAGCCC	4084
3492	AGGGCUGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUCUG	1306	CAGACACC A GCAGCCCU	4085
3495	GACAGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGUGU	1307	ACACCAGC A GCCCUGUC	4086
3498	CGUGACAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGG	1308	CCAGCAGC C CUGUCACG	4087
3499	GCGUGACA	CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGCUG	1309	CAGCAGCC C UGUCACGC	4088
3500	GGCGUGAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCUGCU	1310	AGCAGCCC U GUCACGCC	4089
3504	GCCCGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IACAGGGC	1311	GCCCUGUC A CGCCGGC	4090
3508	UAGAGCCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGACA	1312	UGUCACGC C GGCCGUA	4091
3513	GGACGUAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCCGCG	1313	CGCCGGC U CUACGUCC	4092
3515	UGGACGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCCGG	1314	CCGGGCUC U ACGUCCA	4093
3521	CCUCCCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACGUAGA	1315	UCUACGUC C CAGGGAGG	4094
3522	CCCUCCCU	CUGAUGAG	GCCGUUAGGC	CGAA	IGACGUAG	1316	CUACGUCC C AGGGAGGG	4095
3523	CCCCUCCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGACGUA	1317	UACGUCCC A GGGAGGGA	4096
3540	UGGGUGUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCCCC	1318	GGGCGGGC C CACACCCA	4097
3541	CUGGGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGCCC	1319	GGGCGGCC C ACACCCAG	4098
3542	CCUGGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCGCC	1320	GGCGGCCC A CACCCAGG	4099

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3544	GGCCUGGG CUGAUGAG GCCGUUAGGC CGAA IUGGGCCG	1321	CGGCCCAC A CCCAGGCC	4100
3546	CGGGCCUG CUGAUGAG GCCGUUAGGC CGAA IUGUGGGC	1322	GCCCACAC C CAGGCCCG	4101
3547	GCGGGCCU CUGAUGAG GCCGUUAGGC CGAA IGUGUGGG	1323	CCCACACC C AGGCCCGC	4102
3548	UGCGGGCC CUGAUGAG GCCGUUAGGC CGAA IGGUGUGG	1324	CCACACC A GGCCCGCA	4103
3552	GCGGUGCG CUGAUGAG GCCGUUAGGC CGAA ICCUGGGU	1325	ACCCAGGC C CCCACCGC	4104
3553	AGCGGUGC CUGAUGAG GCCGUUAGGC CGAA IGCCUGGG	1326	CCCAGGCC C GCACCGCU	4105
3556	CCCAGCGG CUGAUGAG GCCGUUAGGC CGAA ICGGGCCU	1327	AGGCCCGC A CCGCUGGG	4106
3558	CUCCCAGC CUGAUGAG GCCGUUAGGC CGAA IUGCGGGC	1328	GCCCGCAC C GCUGGGAG	4107
3561	AGACUCCC CUGAUGAG GCCGUUAGGC CGAA ICGGUGCG	1329	CGCACCGC U GGGAGUCU	4108
3569	CAGGCCUC CUGAUGAG GCCGUUAGGC CGAA IACUCCCA	1330	UGGGAGUC U GAGGCCUG	4109
3575	CUCACUCA CUGAUGAG GCCGUUAGGC CGAA ICCUCAGA	1331	UCUGAGGC C UGAGUGAG	4110
3576	ACUCACUC CUGAUGAG GCCGUUAGGC CGAA IGCCUCAG	1332	CUGAGGCC U GAGUGAGU	4111
3592	CAGGCCUC CUGAUGAG GCCGUUAGGC CGAA ICCAAACA	1333	UGUUGGC C GAGGCCUG	4112
3598	GACAUGCA CUGAUGAG GCCGUUAGGC CGAA ICCUCGGC	1334	GCCGAGGC C UGCAUGUC	4113
3599	GGACAUGC CUGAUGAG GCCGUUAGGC CGAA IGCCUCGG	1335	CCGAGGCC U GCAUGUCC	4114
3602	GCCGGACA CUGAUGAG GCCGUUAGGC CGAA ICAGGCCU	1336	AGGCCUGC A UGUCCGGC	4115
3607	CUUCAGCC CUGAUGAG GCCGUUAGGC CGAA IACAUGCA	1337	UGCAUGUC C GGCUGAAG	4116
3611	CAGCCUUC CUGAUGAG GCCGUUAGGC CGAA ICCGGACA	1338	UGUCCGGC U GAAGGCUG	4117
3618	GGACACUC CUGAUGAG GCCGUUAGGC CGAA ICCUUCAG	1339	CUGAAGGC U GAGUGUCC	4118
3626	CCUCAGCC CUGAUGAG GCCGUUAGGC CGAA IACACUCA	1340	UGAGUGUC C GGCUGAGG	4119
3630	CAGGCCUC CUGAUGAG GCCGUUAGGC CGAA ICCGGACA	1341	UGUCCGGC U GAGGCCUG	4120
3636	CUCGCUCA CUGAUGAG GCCGUUAGGC CGAA ICCUCAGC	1342	GCUGAGGC C UGAGCGAG	4121
3637	ACUCGCUC CUGAUGAG GCCGUUAGGC CGAA IGCCUCAG	1343	CUGAGGC U GAGCGAGU	4122
3649	CCUUGGCU CUGAUGAG GCCGUUAGGC CGAA IACACCCG	1344	CGAGUGCC U AGCCAAGG	4123
3650	UCCUUGGC CUGAUGAG GCCGUUAGGC CGAA IGACACUC	1345	GAGUGCC A GCCAAGGG	4124
3653	CAGCCUUU CUGAUGAG GCCGUUAGGC CGAA ICUGGACA	1346	UGUCCAGC C AAGGCUG	4125
3654	UCCAGCCU CUGAUGAG GCCGUUAGGC CGAA IGCCGGAC	1347	GUCCAGC A AGGCUGA	4126
3660	GGACACUC CUGAUGAG GCCGUUAGGC CGAA ICCCUUGG	1348	CCAAGGC U GAGUGUCC	4127
3663	GGGUGUGCU CUGAUGAG GCCGUUAGGC CGAA IACACUCA	1349	UGAGUGCC C AGCACACC	4128
3663	AGGUGUGC CUGAUGAG GCCGUUAGGC CGAA IGACACUC	1350	GAGUGCC A GCACACCU	4129
3672	GGCAGGUG CUGAUGAG GCCGUUAGGC CGAA ICUGGACA	1351	UGUCCAGC A CACCUGCC	4130
3674	ACGGCAGG CUGAUGAG GCCGUUAGGC CGAA IGCCGGGA	1352	UCCCAGCAC A CCUGCCGU	4131
3676	AGACGGCA CUGAUGAG GCCGUUAGGC CGAA IUGGCCUG	1352	CAGCACAC C UGCCGCCU	4132
3677	AAGACGGC CUGAUGAG GCCGUUAGGC CGAA IGCCGGCU	1354	AGCACACC U GCCGCUU	4133
3680	GCGAAGAC CUGAUGAG GCCGUUAGGC CGAA ICACGUCU	1356	ACACCUGC C GCCUUCAC	4134
3684	GGAAGCGA CUGAUGAG GCCGUUAGGC CGAA IACGGCAG	1356	CUGCCGUC U CCAUUCC	4135
3687	UCGGGAAG CUGAUGAG GCCGUUAGGC CGAA IAAGACGG	1357	CCUGUCC A CCUCCCA	4136
3689	UGUCGGGA CUGAUGAG GCCGUUAGGC CGAA ICGAAGAC	1358	GUCCUCAC U CCCCACA	4137
3692	GCUCGUGG CUGAUGAG GCCGUUAGGC CGAA IAAGCGAA	1359	UUGCACUC C CCACAGGC	4138
3693	AGCCUGCG CUGAUGAG GCCGUUAGGC CGAA IGAAGUGA	1360	UCACUCC C CACAGGCU	4139
3694	CAGCCUGU CUGAUGAG GCCGUUAGGC CGAA IGGAAGUG	1361	CACUCCC C ACAGGCUG	4140
3695	UCAGCCUG CUGAUGAG GCCGUUAGGC CGAA IGGAAGU	1362	ACUCCCC A CAGGCUGG	4141
3697	UGCCAGCC CUGAUGAG GCCGUUAGGC CGAA IUGGGGAA	1363	CCCCCAC A GGCUGGCG	4142
3701	CGAGCCCC CUGAUGAG GCCGUUAGGC CGAA ICCUGUGG	1364	CCCACGGC U GGCGCCG	4143
3707	UGGAGCCG CUGAUGAG GCCGUUAGGC CGAA ICCCCAGC	1365	GCUGGCGC U CGGCUCA	4144
3712	UGGGGUGG CUGAUGAG GCCGUUAGGC CGAA ICCGAGCG	1366	CGCUGGC U CCACCCA	4145
3714	CCUGGGU CUGAUGAG GCCGUUAGGC CGAA IAGCCGAG	1367	CUCGGCUC C ACCCAGG	4146

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3715	CCCUGGGG CUGAUGAG GCCGUUAGGC CGAA IGAGCCGA	1368	UUGGCUCC A CCCCAGGG	4147
3717	GGCCCUGG CUGAUGAG GCCGUUAGGC CGAA IUGGAGCC	1369	GGCUCCAC C CCAGGGC	4148
3718	UGGCCCUG CUGAUGAG GCCGUUAGGC CGAA IGUGGAGC	1370	GCUCCACC C CAGGGCA	4149
3719	CUGGCCCU CUGAUGAG GCCGUUAGGC CGAA ISGGUGGAG	1371	CUCCACCC C AGGGCAG	4150
3720	GCUGGCCC CUGAUGAG GCCGUUAGGC CGAA IGGUGGA	1372	UCCACCC A GGGCAGC	4151
3725	GAAAAGCU CUGAUGAG GCCGUUAGGC CGAA ICCUGG	1373	CCCAGGGC C AGCUUUUC	4152
3726	GGAAAAGC CUGAUGAG GCCGUUAGGC CGAA IGCCCUGG	1374	CCAGGCC A GCUUUUCC	4153
3729	UGAGGAAA CUGAUGAG GCCGUUAGGC CGAA ICUGGCC	1375	GGCCAGC U UUUCCUCA	4154
3734	CCUGGUGA CUGAUGAG GCCGUUAGGC CGAA IAAAAGCU	1376	AGCUUUUC C UCACCAGG	4155
3735	UCCUGGUG CUGAUGAG GCCGUUAGGC CGAA IGAAAAGC	1377	GCUUUUCC U CACCAGGA	4156
3737	GCUCCUGG CUGAUGAG GCCGUUAGGC CGAA IAGGAAAA	1378	UUUUCCUC A CCAGGAGC	4157
3739	GGGCUCCU CUGAUGAG GCCGUUAGGC CGAA IUGAGGAA	1379	UUCUCAC C AGGAGCC	4158
3740	CGGGCUCC CUGAUGAG GCCGUUAGGC CGAA IGUGAGGA	1380	UCCUCACC A GGAGCCGG	4159
3746	GGAAGCCG CUGAUGAG GCCGUUAGGC CGAA ICUUCUGG	1381	CCAGGAGC C GGGCUUCC	4160
3747	UGGAAGCC CUGAUGAG GCCGUUAGGC CGAA IGCUUCUG	1382	CAGGAGCC G GGCUUCCA	4161
3751	GGAGUGGA CUGAUGAG GCCGUUAGGC CGAA ICCGGGCU	1383	AGCCGGGC U UCCACUCC	4162
3754	UGGGGAGU CUGAUGAG GCCGUUAGGC CGAA IAAGCCGG	1384	CCGGGCUUC C ACUCCCA	4163
3755	GUGGGGAG CUGAUGAG GCCGUUAGGC CGAA IGAAGCCG	1385	CGGGCUUCC A CUCCCCAC	4164
3757	AUGUGGGG CUGAUGAG GCCGUUAGGC CGAA IUUGGAAGC	1386	GGUUCCAC U CCCCACAU	4165
3759	CUAUGUGG CUGAUGAG GCCGUUAGGC CGAA IAGUGGAA	1387	UUCCACUC C CCACAUAG	4166
3760	CCUAUGUG CUGAUGAG GCCGUUAGGC CGAA IGAGUGGA	1388	UCCACUCC C CACAUAGG	4167
3761	UCCUAUGU CUGAUGAG GCCGUUAGGC CGAA IGGAGUGG	1389	CCACUCCC C ACAUAGGA	4168
3762	UUCCUAUG CUGAUGAG GCCGUUAGGC CGAA IGGAGUG	1390	CACUCCCC A CAUAGGAA	4169
3764	UAUUCCUA CUGAUGAG GCCGUUAGGC CGAA IUGGGGAG	1391	CUCCCCAC A UAGGAAUA	4170
3776	CUGGGGAU CUGAUGAG GCCGUUAGGC CGAA IACUAUUC	1392	GAAUAGUC C AUCCCCAG	4171
3777	UCUGGGGA CUGAUGAG GCCGUUAGGC CGAA IGACUAUU	1392	AAUAGUCC A UCCCCAGA	4172
3780	GAAUCUGG CUGAUGAG GCCGUUAGGC CGAA IAUGGACU	1394	AGUCCAUC C CCAGAUUC	4173
3781	CGAAUCUG CUGAUGAG GCCGUUAGGC CGAA IGAUGGAC	1395	GUCCAUCC C CAGAUUCG	4174
3782	GCGAAUCU CUGAUGAG GCCGUUAGGC CGAA IGGAUGGA	1396	UCCAUCCC C AGAUUCGC	4175
3783	GGCGAAUC CUGAUGAG GCCGUUAGGC CGAA IGGGAUGG	1397	CCAUCCCC A GAUUCGCC	4176
3791	UGAACAAU CUGAUGAG GCCGUUAGGC CGAA ICGAACCU	1398	AGAUUCGC C AUUGUCA	4177
3792	GUGAACAA CUGAUGAG GCCGUUAGGC CGAA IGCGAAUC	1399	GAUUCGCC A UUGUCAC	4178
3799	GCGAGGGG CUGAUGAG GCCGUUAGGC CGAA IAACAAUG	1400	CAUUGUUC A CCCCUCG	4179
3801	GGGCGAGG CUGAUGAG GCCGUUAGGC CGAA IUGAACAA	1401	UUGUUCAC C CCUCGCC	4180
3802	AGGGCGAG CUGAUGAG GCCGUUAGGC CGAA IGUGAACA	1402	UGUUCACC C CUCGCCU	4181
3803	CAGGGCGA CUGAUGAG GCCGUUAGGC CGAA IGGUGAAC	1403	GUUCACCC C UCGCCUG	4182
3804	GCAGGGCG CUGAUGAG GCCGUUAGGC CGAA IGGGUGAA	1404	UUCACCC U CGCCCUGG	4183
3808	GAGGGCAG CUGAUGAG GCCGUUAGGC CGAA ICGAGGGC	1405	CCCCUCGC C CUGCCCUC	4184
3809	GGAGGGCA CUGAUGAG GCCGUUAGGC CGAA IGCGAGGG	1406	CCCUCGCC C UGCCCUC	4185
3810	AGGAGGGC CUGAUGAG GCCGUUAGGC CGAA IGGCGAGG	1407	CCUCGCC U GCCCUCCU	4186
3813	CAAAGGAG CUGAUGAG GCCGUUAGGC CGAA ICAGGGCG	1408	CGCCCUGC C CUCCUUCG	4187
3814	GCAAAGGA CUGAUGAG GCCGUUAGGC CGAA IGCAGGGC	1409	GCCCUGCC C UCCUUCG	4188
3815	GGCAAAGG CUGAUGAG GCCGUUAGGC CGAA IGGCAGGG	1410	CCCUGCC U CCUUCGCC	4189
3817	AAGGCAAA CUGAUGAG GCCGUUAGGC CGAA IAGGGCAG	1411	CUGCCCUC C UUCGCCU	4190
3818	GAAGGCAA CUGAUGAG GCCGUUAGGC CGAA IGAGGGCA	1412	UGCCCUCC U UCGCCUC	4191
3823	GGGUGGAA CUGAUGAG GCCGUUAGGC CGAA ICAAAGGA	1413	UCCCUUGCC C UUCCACCC	4192
3824	GGGGUGGA CUGAUGAG GCCGUUAGGC CGAA IGCAAAGG	1414	CCUUGCC U UCCACCCC	4193

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Table IV

3827	GUGGGGGU CUGAUGAG GCCGUUAGGC CGAA IAAGGCAA	1415	UUGCCUUC C ACCCCCAC	4194
3828	GUGGGGG CUGAUGAG GCCGUUAGGC CGAA IGAAGGCA	1416	UGCCUUCC A CCCCCACC	4195
3830	AUGGUGGG CUGAUGAG GCCGUUAGGC CGAA IUGGAAGG	1417	CCUUCCAC C CCCACCAU	4196
3831	GAUGGUGG CUGAUGAG GCCGUUAGGC CGAA IGUGGAAG	1418	CUUCCACC C CCACCAUC	4197
3832	GGAUGGUG CUGAUGAG GCCGUUAGGC CGAA IGGUGGAA	1419	UUCCACCC C CACCAUCC	4198
3833	UGGAUGGU CUGAUGAG GCCGUUAGGC CGAA IGGGUGGA	1420	UCCACCCC C ACCAUCCA	4199
3834	CUGGAUGG CUGAUGAG GCCGUUAGGC CGAA IGGGGUGG	1421	CCACCCCC A CCAUCCAG	4200
3836	ACCUGGAU CUGAUGAG GCCGUUAGGC CGAA IUGGGGUU	1422	ACCCCCAC C AUCCAGGU	4201
3837	CACCUGGA CUGAUGAG GCCGUUAGGC CGAA IGUGGGGG	1423	CCCCCACC A UCCAGGUG	4202
3840	CUCCACCU CUGAUGAG GCCGUUAGGC CGAA IAUGGUGG	1424	CCACCAUC C AGGUGGAG	4203
3841	UCUCCACU CUGAUGAG GCCGUUAGGC CGAA IGAUGGUG	1425	CACCAUCC A GGUGGAGA	4204
3851	CUUCUCAG CUGAUGAG GCCGUUAGGC CGAA IUCUCCAC	1426	GUGGAGAC C CUGAGAAG	4205
3852	CCUUCUCA CUGAUGAG GCCGUUAGGC CGAA IGUCUCCA	1427	UGGAGACC C UGAGAAGG	4206
3853	UCCUUCUC CUGAUGAG GCCGUUAGGC CGAA IGGUCUCC	1428	GGAGACCC U GAGAAGGA	4207
3863	GCUCCCAG CUGAUGAG GCCGUUAGGC CGAA IUCCUUCU	1429	AGAAGGAC C CUGGGAGC	4208
3864	AGCUCCCA CUGAUGAG GCCGUUAGGC CGAA IGUCCUUC	1430	GAAGGACC C UGGGAGCU	4209
3865	GAGCUCCC CUGAUGAG GCCGUUAGGC CGAA IGGUCCUU	1431	AAGGACCC U GGGAGCUC	4210
3872	AUUCCCAG CUGAUGAG GCCGUUAGGC CGAA ICUCCCAG	1432	CUGGGAGC U CUGGGAAU	4211
3874	AAAUUCCC CUGAUGAG GCCGUUAGGC CGAA IAGCUCCC	1433	GGGAGCUC U GGGAAUUU	4212
3891	ACACUUUU CUGAUGAG GCCGUUAGGC CGAA IUCACUCC	1434	GGAGUGAC C AAAGUUGU	4213
3892	CACACUUU CUGAUGAG GCCGUUAGGC CGAA IGUCACUC	1435	GAGUGACC A AAGUUGUG	4214
3901	GUGUACAG CUGAUGAG GCCGUUAGGC CGAA ICACACCU	1436	AGGUGUGC C CUGUACAC	4215
3902	UGUGUACA CUGAUGAG GCCGUUAGGC CGAA IGCACACC	1437	GGUGUGCC C UGUACACA	4216
3904	CUGUGUAC CUGAUGAG GCCGUUAGGC CGAA IGGCACAC	1438	GUGUGCCC U GUACACAG	4217
3909	CUGGCCUG CUGAUGAG GCCGUUAGGC CGAA IUACAGGG	1439	CCCUGUAC A CAGGCGAG	4218
3911	UCCUCGCC CUGAUGAG GCCGUUAGGC CGAA IUGUACAG	1440	CUGUACAC A GGCGAGGA	4219
3911	AGGUGCAG CUGAUGAG GCCGUUAGGC CGAA IUCCUCGC	1441	GCGAGGAC C CUGCACCU	4220
3922	CAGGUGCA CUGAUGAG GCCGUUAGGC CGAA IGUCCUCG	1442	CGAGGACC C UGCACCUG	4221
3923	CCAGGUGC CUGAUGAG GCCGUUAGGC CGAA IGGUCCUC	1443	GAGGACCC U GCACCUGG	4222
3926	CAUCCAGG CUGAUGAG GCCGUUAGGC CGAA ICAGGUGC	1444	GACCCUGC A CCUGGAUG	4223
3928	CCCAUCCA CUGAUGAG GCCGUUAGGC CGAA IUGCAGGG	1445	CCCUGCAC C UGGAUGGG	4224
3929	CCCCAUCC CUGAUGAG GCCGUUAGGC CGAA IGUGCAGG	1446	CCUGCACC U GGAUGGGG	4225
3941	ACCCACAG CUGAUGAG GCCGUUAGGC CGAA IACCCCCA	1447	UGGGGUC C CUGUGGGU	4226
3942	GACCCACA CUGAUGAG GCCGUUAGGC CGAA IGACCCCC	1448	GGGGUCC C UGUGGGUC	4227
3943	UGACCCAC CUGAUGAG GCCGUUAGGC CGAA IGGACCCC	1449	GGGUCCC U GUGGGUCA	4228
3951	CCCCAAUU CUGAUGAG GCCGUUAGGC CGAA IACCCACA	1450	UGUGGGUC A AAUGGGG	4229
3963	ACUCCCAC CUGAUGAG GCCGUUAGGC CGAA ICACCCCC	1451	GGAGGUGC U GUGGAGU	4230
3984	AUAUAUUC CUGAUGAG GCCGUUAGGC CGAA IUAUUCUUA	1452	UAAAAUAC U GAAUAUAU	4231
4002	UUCAAAAC CUGAUGAG GCCGUUAGGC CGAA IAAAAACU	1453	AGUUUUUC A GUUUUGAA	4232

Stem Length = 8 . Core Sequence = CUGAUGAG GCCGUUAGGC CGAA. I = Inosine nucleotide

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp); Nakamura *et al.*, Science 277 (5328), 955-959 (1997)

Table V

Table V: Human telomerase reverse transcriptase (TERT) G-Cleaver Ribozyme and Target Sequence

nt. Position	Substrate Sequence	Seq ID Nos	Ribozyme Sequence	Seq ID Nos
16	GCUGCGGCCU G CUGCCG	1454	CGGCAG UGAUGG...CACUAUGGCG AGGACGCAGC	4233
19	GCGGCCUGCG G CCGCAG	1455	CGGCAG UGAUGG...CACUAUGGCG AGCAGGACGC	4234
21	GUCCUGCUGC G CAGGU	1456	ACCUG UGAUGG...CACUAUGGCG CGAGCAGGAC	4235
53	GGCCACCCCC G CGGCG	1457	CAUCG UGAUGG...CACUAUGGCG GGGGGUGGCC	4236
55	CCACCCCGCG G AUGCC	1458	GGCAU UGAUGG...CACUAUGGCG GCGGGGGUGG	4237
59	CCCCGCGGAU G CCGGG	1459	CCCGG UGAUGG...CACUAUGGCG AUCGCGGGGG	4238
61	CCGCGGAUGC G CGGGC	1460	GCCCG UGAUGG...CACUAUGGCG GGCAUCCGCGG	4239
63	GCGGAUGCCG G GGCC	1461	GAGCC UGAUGG...CACUAUGGCG GGCGCAUCGC	4240
65	GAUGCCGGGC G CCCC	1462	GGGAG UGAUGG...CACUAUGGCG GCGGGCAUCC	4241
72	CCGGGCCCCC G CCGCC	1463	GGCGG UGAUGG...CACUAUGGCG GGGGAGCGCG	4242
75	GCGCCCCGCG G CCGCG	1464	CUGCG UGAUGG...CACUAUGGCG AGCGGGGAGC	4243
78	CCCCGCGGCC G CGGCG	1465	CCGCG UGAUGG...CACUAUGGCG GGCAGCGGGG	4244
85	GCCGCGGCGG G CGCUC	1466	GAGCG UGAUGG...CACUAUGGCG ACGGCGCGGC	4245
87	CGCGGCGGCG C UGCCC	1467	GGGAG UGAUGG...CACUAUGGCG GCAGCCGCCG	4246
94	GCGCUGCCCG C UGCAG	1468	CUGCA UGAUGG...CACUAUGGCG AGGCAGCGCA	4247
97	CUGCCCGCUG C ACAG	1469	CUGUG UGAUGG...CACUAUGGCG AGCAGGGCAG	4248
99	GCCCGCUGCA G GGGA	1470	CCCCU UGAUGG...CACUAUGGCG GCAGCGGGGA	4249
111	AGCCACUACC G CCAGG	1471	CCUGG UGAUGG...CACUAUGGCG GGUAGUGGCU	4250
113	CCACUACCGC G CAGGU	1472	CACCU UGAUGG...CACUAUGGCG GCGGUAGUGG	4251
118	ACCGCCAGGU C CCGCU	1473	GGCAG UGAUGG...CACUAUGGCG AGCGGGACCU	4252
141	GCGAGGGGCU G CGGCU	1474	AGGCG UGAUGG...CACUAUGGCG AGCAGCCCCU	4253
144	AGGGGCUGCG G CUGCC	1475	GGCAG UGAUGG...CACUAUGGCG GGCAGCACCC	4254
139	CCAGGGUGCGG G CGGGG	1476	CGGGG UGAUGG...CACUAUGGCG ACGAAGCUGG	4255
144	UUCGGGCGGG G CGGGG	1477	CCACG UGAUGG...CACUAUGGCG GCGGCACGAA	4256
172	GGGGCUGGGU G CAGCG	1478	CGCUG UGAUGG...CACUAUGGCG ACCAGCCGCC	4257
177	CUGGGUGCAG C GGAGG	1479	CCUCG UGAUGG...CACUAUGGCG GCGGCACCAG	4258
198	GCGGCUUCCG G GCGG	1480	CCGCG UGAUGG...CACUAUGGCG GGAAAGCCGC	4259
200	GGCUUCCGGG G CGGUG	1481	CACCG UGAUGG...CACUAUGGCG GCGGAAAGCC	4260

Table V

202	UUUUCCGCGG G CUGAGU	1483	ACCAG UGAUGGCAUGCACUAUGCGCG GCGCGGAAAG	4261
216	GUGGCCCAGU G CCUGG	1485	CCAGG UGAUGGCAUGCACUAUGCGCG ACUGGCGCAG	4262
223	AGGGUCGGU G UGCGG	1484	ACGCA UGAUGGCAUGCACUAUGCGCG ACGCGGCACC	4263
225	UGCCUGGUGU G CGUGC	1485	GCACG UGAUGGCAUGCACUAUGCGCG AUACCAGGCA	4264
229	UGGUGCCGGU G CGCCG	1486	CAGGG UGAUGGCAUGCACUAUGCGCG ACGCACACCA	4265
239	GCCCAGGAAC G CACGG	1487	CCUGG UGAUGGCAUGCACUAUGCGCG GCCCAGGGC	4266
247	ACGCACGGCC G CCGCC	1488	GGGGG UGAUGGCAUGCACUAUGCGCG GGGCGGCGGC	1267
254	GCCCGCCGCC G CCGCC	1489	GGCGG UGAUGGCAUGCACUAUGCGCG GGGGCGGGGC	4268
257	GCCCGCCGCC G CCCGC	1490	GGCGG UGAUGGCAUGCACUAUGCGCG GGCGGGGGGC	4269
270	GCCCGCCGCC G CCAGG	1491	CCGGG UGAUGGCAUGCACUAUGCGCG GGAAGGAGGG	4270
277	UCCGGCCAGGU G UGAGG	1492	CAGGA UGAUGGCAUGCACUAUGCGCG ACCUGGCGGA	4271
281	CAGGCUCCUU G CUGGA	1493	GCAGG UGAUGGCAUGCACUAUGCGCG AGGACACCUG	4272
286	GGGCCUGCCU G AAGGA	1494	GUGGG UGAUGGCAUGCACUAUGCGCG AGGCAGGACA	4273
303	GCGGGGCCCU G AGGCC	1495	GUGGG UGAUGGCAUGCACUAUGCGCG GGGCCACCAG	4274
307	UGGCCGGAGU G CCGCA	1496	UGGCAG UGAUGGCAUGCACUAUGCGCG ACUGGGCCA	4275
310	GCCGGCGGCU G CAGAG	1497	GCGCG UGAUGGCAUGCACUAUGCGCG GGCACGCGGG	4276
319	UGCAGGGCCU G UCCGA	1498	GCGCA UGAUGGCAUGCACUAUGCGCG AGCCUCUGCA	4277
321	CAGGGGCCGU G CGAGC	1499	GUGCG UGAUGGCAUGCACUAUGCGCG ACAGCCUCUG	4278
323	GAGCUCGUGC G AGGGC	1500	GCGCG UGAUGGCAUGCACUAUGCGCG GCACAGCCUC	4279
327	CUGUGCGGAGG G CGGCG	1501	GCGCG UGAUGGCAUGCACUAUGCGCG GCUGGCACAG	4280
332	CGAGCGGCGC G CGAAG	1502	CUGCG UGAUGGCAUGCACUAUGCGCG GCGGGCUCG	4281
334	AGGGCGGCGC G AAGAA	1503	GGCGG UGAUGGCAUGCACUAUGCGCG GCGCCGCGCU	4282
343	CGAAGAACGU G CUGGC	1504	GCGCG UGAUGGCAUGCACUAUGCGCG ACGGCCUUCG	4283
356	CUUCGGCUUC G CCGUG	1505	CAGCG UGAUGGCAUGCACUAUGCGCG GAAGCCGAAG	4284
361	UCGGCUUCGU G CUGCU	1506	AGCGG UGAUGGGCAUGCACUAUGCGCG GCGAGCCGA	4285
364	GCUUCGUGCU G CUGGA	1507	UCCAG UGAUGGCAUGCACUAUGCGCG AGCGCGAAGC	4286
378	GAGGGCGGGC G CGGGC	1508	CCCGG UGAUGGCAUGCACUAUGCGCG GGGCCCGGUC	4287
392	GGGCGGCGCC G AGGCC	1509	GGCGU UGAUGGCAUGCACUAUGCGCG GGGGGGGCGC	4288
412	GCACGCGGCU G CGCAG	1510	GUGGG UGAUGGCAUGCACUAUGCGCG ACGCGGCGG	4289
414	ACCAGCGUGC G CAGCU	1511	ACGUG UGAUGGCAUGCACUAUGCGCG GCAGGCUGGU	4290
424	GCAGCUUGCU G CCGAA	1512	UCGGG UGAUGGCAUGCACUAUGCGCG AGGUAGCUGC	4291

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438	CCAAGACGGU G ACUUA	1513	GCGGU UGAUGG...ACUAUGCGCG ACGGUGUUGG	4292
440	CACGGUGACC G AUGCA	1514	UGCGU UGAUGG...CAUGCACUAUGCGCG GUUCAGCGGG	4293
443	GGGGAUGGAC G CAUUG	1515	CAGUG UGAUGG...CAUGCACUAUGCGCG GUCGGUCACC	4294
446	CCGAGCAGG G CGGGU	1516	GGGGG UGAUGG...CAUGCACUAUGCGCG AGUGCGUGGG	4295
472	CGGGGGGGGU G CGGGU	1517	AGGUG UGAUGG...CAUGCACUAUGCGCG AGANCGCCAG	4296
475	GGGGGCUGCU G CUGCG	1518	CGGCG UGAUGG...CAUGCACUAUGCGCG AGCAGCGCCG	4297
478	GGGGGUUGGUU G CCGCG	1519	CGGCC UGAUGG...CAUGCACUAUGCGCG AGCAGCAGCC	4298
480	CUGCUGGGC G CCGCG	1520	CGGGG UGAUGG...CAUGCACUAUGCGCG GCAGCAGCAG	4299
483	CUGGGGGGGG G CGGGG	1521	GCAGG UGAUGG...CAUGCACUAUGCGCG GGCGCAGCAG	4300
491	CCCGUCGGC G ACGAC	1522	GGGUG UGAUGG...CAUGCACUAUGCGCG GCCCAGCGGG	4301
494	GGGGGGGAC G ACGUG	1523	CAUGG UGAUGG...CAUGCACUAUGCGCG GUCGCCCAGG	4302
4??	GGGAUGGGG G CUGGG	1524	ACCGG UGAUGG...CAUGCACUAUGCGCG ACGNCGNCGC	4303
511	UGGUUCACCU G CUGGC	1525	GCCAG UGAUGG...CAUGCACUAUGCGCG AGGUGAACCA	4304
519	CGGGGGGGAC G CUGCG	1526	CGGAG UGAUGG...CAUGCACUAUGCGCG GUGCCAGCAG	4305
522	CUGGAUGGCU G CGCCC	1527	GCGCG UGAUGG...AUGCACUAUGCGCG AGCGUGCCAG	4306
524	GGGACGGGGC G CGCCC	1528	GAAGG UGAUGG...CAUGCACUAUGCGCG GCAGCGUGCC	4307
526	CACGGUGGCC G CGUUU	1529	AAGGG UGAUGG...CAUGCACUAUGCGCG GCCAGCGGGG	4308
533	CGGGGGUUUU G UGCUG	1530	CAGCA UGAUGG...CAUGCACUAUGCGCG AAAGAGCGCG	4309
535	CGGUGUGGGU G CUGGU	1531	AGGCA UGAUGG...CAUGCACUAUGCGCG ACAAGAGAGG	4310
552	GCCCCAGGGU G CCGCU	1532	AGGGG UGAUGG...AUGCACUAUGCGCG AGCUGGGAGC	4311
554	UCCCAGGGGC G CCUAC	1533	GGGGG UGAUGG...CAUGCACUAUGCGCG GCAGCUGGGA	4312
565	CCGAGGGGGU G UGGGG	1534	CGGGCA UGAUGG...CAUGCACUAUGCGCG ACUGGUAGG	4313
5??	UACCGGGGGU G CGGGC	1535	GGGGG UGAUGG...CAUGCACUAUGCGCG ACACCUGGUA	4314
574	UGUGGGGGCC G CCGCU	1536	AGCCG UGAUGG...CAUGCACUAUGCGCG GGCCCGCACA	4315
577	GGGGGGGGGC G CUGGA	1537	GGCAG UGAUGG...CACUAUGCGCG GGAGGCCGGC	4316
580	GGGGGGGGGU G UACGA	1538	UGGUA UGAUGG...AUGCACUAUGCGCG ACGGCGGCC	4317
593	GGGAUGGGGC G CUGCC	1539	GGCAG UGAUGG...CAUGCACUAUGCGCG GAAGAGCUGG	4318
596	GGUGGGGGCU G CCACU	1540	AGGGG UGAUGG...CAUGCACUAUGCGCG AGCGCCGAGG	4319
616	CGGGGGGGGC G CUACA	1541	UGGGG UGAUGG...CAUGCACUAUGCGCG GGGGGCGGGG	4320
623	CGGGCCACAG G CUAGU	1542	ACUAG UGAUGG...CAUGCACUAUGCGCG GGGUGGCGGG	4321
636	AGGUGACCUC G AAGGC	1543	GCCUU UGAUGG...CAUGCACUAUGCGCG GGGGUCCACC	4322

Table V

651	CGGCUGGGAU G CGAAC	1544	GUUCG UGAUGGCAUGCACUAUUGCGCG	AUCCCAGAGG	4323
653	UCGGGAUGC G AAUGG	1545	GCGUU UGAUGGCAUGCACUAUUGCGCG	GCAUCCAGA	4324
703	CCUGGGCUU G CUAGU	1546	GCUGG UGAUGGCAUGCACUAUUGCGCG	AGGCCCAGGG	4325
716	AGGCCUGGAU G CUAGG	1547	CGGGG UGAUGGCAUGCACUAUUGCGCG	AUGGGGGGU	4326
718	CUUGGGGUU G AGGAG	1548	CUCCU UGAUGGCAUGCACUAUUGCGCG	GCAGGGGGG	4327
726	CCGGAAGGC G CGGGG	1549	CUUGG UGAUGGCAUGCACUAUUGCGCG	GCCGCCUGGC	4328
737	CGGGGCAUU G CUAGU	1550	GUUGG UGAUGGCAUGCACUAUUGCGCG	ACUGCCCCGC	4329
744	AGUGCAGGC G AAGUC	1551	GAGUU UGAUGGCAUGCACUAUUGCGCG	GGCUGGCACU	4330
751	GCCGAAGUCG G CGGUU	1552	AAUGG UGAUGGCAUGCACUAUUGCGCG	AGACUUGGGC	4331
757	GUCUGGGUU G CGGAA	1553	UUGGG UGAUGGCAUGCACUAUUGCGCG	AACGGCAGAC	4332
779	CAGGGUGGCU G CUGGU	1554	GGUAU UGAUGGCAUGCACUAUUGCGCG	GCCACGCCUG	4333
792	CGGUGGGGUU G CGGUU	1555	AGGGG UGAUGGCAUGCACUAUUGCGCG	AGCGCCACGC	4334
793	CGGCUUUGAU G AGCGG	1556	UGGUU UGAUGGCAUGCACUAUUGCGCG	AUCGGCAGCG	4335
802	CGGAGGAAC G CGUGG	1557	AUGGG UGAUGGCAUGCACUAUUGCGCG	GGCCGCUCCG	4336
841	CGGGCAGGAC G CGUGG	1558	UUAUG UGAUGGCAUGCACUAUUGCGCG	GGCUUGCCCG	4337
850	CGGGGGGAUC G AGGGA	1559	UGGAU UGAUGGCAUGCACUAUUGCGCG	GGUCCACGCG	4338
854	UGGACCGAGU G ACCGU	1560	AUGGG UGAUGGCAUGCACUAUUGCGCG	ACUCGUUCCA	4339
862	CGGCUUUGU G UGAUU	1561	CGGACA UGAUGGCAUGCACUAUUGCGCG	AGAAAUCACG	4340
868	CGGGUUUGGU G UGGGG	1562	CAGGA UGAUGGCAUGCACUAUUGCGCG	ACAGAAACCA	4341
874	UCUGGGGGAU G UUAGC	1563	GGUGA UGAUGGCAUGCACUAUUGCGCG	ACCACACAGA	4342
881	CGGGCCAGCU G CCAGA	1564	GUUGG UGAUGGCAUGCACUAUUGCGCG	AGGUGCACC	4343
899	CGUCAGAUCC G CCGAA	1565	UUUGGG UGAUGGCAUGCACUAUUGCGCG	GGGUCUUGGCA	4344
895	CAGACGGGCC G AAGAA	1566	UUGUUU UGAUGGCAUGCACUAUUGCGCG	GGCGGGUCUG	4345
917	UUUGGAGGAU G CGCUU	1567	GAGGG UGAUGGCAUGCACUAUUGCGCG	ACCUCCAAA	4346
919	UGAAGGUCCU G CUGUC	1568	GGUGAU UGAUGGCAUGCACUAUUGCGCG	GCACCCUCCA	4347
931	UCUCCUGCAU G CGGCA	1569	UGGGG UGAUGGCAUGCACUAUUGCGCG	GGGUCACAGA	4348
933	UCGGGGGGCU G CCAGU	1570	AGUUGG UGAUGGCAUGCACUAUUGCGCG	GCCUUGCCAGA	4349
957	UGGUGGGGCU G CGAGC	1571	GUUGG UGAUGGCAUGCACUAUUGCGCG	GGGCCACGGA	4350
968	CCAAACGAC G CGGGC	1572	GGGGG UGAUGGCAUGCACUAUUGCGCG	GUGGUGCUGG	4351
983	CAUCCACAUC G CGGCC	1573	GGGGG UGAUGGCAUGCACUAUUGCGCG	GAUGUGGAUG	4352
1012	CCUGGGACAC G CCUUG	1574	CAAGG UGAUGGCAUGCACUAUUGCGCG	GUCUCCCAGG	4353

1017	GACAGCCCU	G	CCCCC	1575	GGGGG UGAUGGCAUGCACUAUGCGCG	AAGGCGUGUC	4354
1027	GUCCCCGGU	G	UACGC	1576	GCGGG UGAUGGCAUGCACUAUGCGCG	ACCGGGGGAC	4355
1031	CCCGGGUAC	G	CCGAG	1577	CUCGG UGAUGGCAUGCACUAUGCGCG	GUACACCGGG	4356
1034	GGUGUACCC	G	AGACC	1578	GGUCU UGAUGGCAUGCACUAUGCGCG	GGGUGACACC	4357
1064	CUCCUCAGGC	G	ACAAG	1579	CUUGU UGAUGGCAUGCACUAUGCGCG	GCCUGAGGAG	4358
1078	AGAGCAGCU	G	CGGCC	1580	GGCCG UGAUGGCAUGCACUAUGCGCG	AGCUGCUCCU	4359
1105	UCAGCUCUCU	G	AGGCC	1581	GGCCU UGAUGGCAUGCACUAUGCGCG	AGAGAGCUGA	4360
1117	GGCCCAGCCU	G	ACUGG	1582	CCAGU UGAUGGCAUGCACUAUGCGCG	AGGCUGGGCC	4361
1124	CCUGACUGGC	G	CUUGG	1583	CCAAG UGAUGGCAUGCACUAUGCGCG	GCCAGUCAGG	4362
1171	GGCCCUGGAU	G	CCCGG	1584	CCGGG UGAUGGCAUGCACUAUGCGCG	AUCCAGGGCC	4363
1185	GGGACCUCCC	G	CAGGU	1585	ACCUG UGAUGGCAUGCACUAUGCGCG	GGGGAGUCCC	4364
1192	CCCGCAGGUU	G	CCCCC	1586	GGGGG UGAUGGCAUGCACUAUGCGCG	AACCUGCGGG	4365
1197	AGGUUGCCCC	G	CUGCC	1587	GGCAG UGAUGGCAUGCACUAUGCGCG	GGGGCAACCU	4366
1201	UGCCCCGCU	G	CCCCA	1588	UGGGG UGAUGGCAUGCACUAUGCGCG	AGGGGGGGCA	4367
1209	CUGCCCCAGC	G	CUACU	1589	AGUAG UGAUGGCAUGCACUAUGCGCG	GCUGGGGCAG	4368
1222	ACUGGCAAAU	G	CGGCC	1590	GGCCG UGAUGGCAUGCACUAUGCGCG	AGUUGCCAGU	4369
1231	UGCGGCCCCU	G	UGCGC	1591	AGCGA UGAUGGCAUGCACUAUGCGCG	AGGGAGCGCA	4370
1245	UUCUGGGACCU	G	CUUGG	1592	CCAAG UGAUGGCAUGCACUAUGCGCG	AGCUCCAGAA	4371
1256	UGGGAACCAC	G	CGCAG	1593	CUGCG UGAUGGCAUGCACUAUGCGCG	GUGGGGCCCA	4372
1258	GGAACCACGC	G	CAGUG	1594	CACUG UGAUGGCAUGCACUAUGCGCG	GCGUGGGUUCC	4373
1263	CACGCGCAGU	G	CACGU	1595	ACGUG UGAUGGCAUGCACUAUGCGCG	ACUGCGCGUG	4374
1276	CCUACCGAGU	G	CUGCU	1596	AGCAG UGAUGGCAUGCACUAUGCGCG	ACCCGGUAGG	4375
1288	UCCUCAAGAC	G	CACUG	1597	CAGUG UGAUGGCAUGCACUAUGCGCG	GUCUGAGGA	4376
1293	AAGACGCAGU	G	CCCGC	1598	GCGGG UGAUGGCAUGCACUAUGCGCG	AGUGGGUCUU	4377
1297	CGCACUGCCC	G	CUGCG	1599	CGCAG UGAUGGCAUGCACUAUGCGCG	GGCCAGUGCG	4378
1300	ACUGCCCGCU	G	CGGAG	1600	CUCCG UGAUGGCAUGCACUAUGCGCG	AGUGGCAGU	4379
1302	UGCCCGCUGC	G	AGUGG	1601	CCACU UGAUGGCAUGCACUAUGCGCG	GCAGGGGGCA	4380
1307	GCUGCGAGUU	G	CGGUC	1602	GACCG UGAUGGCAUGCACUAUGCGCG	AGUUGCGAGC	4381
1328	AGCAGCCGGU	G	UCUGU	1603	ACAGA UGAUGGCAUGCACUAUGCGCG	ACCGGCUGCU	4382
1332	GCCGGUGUCU	G	UGCCC	1604	GGGCA UGAUGGCAUGCACUAUGCGCG	AGACACGGGC	4383
1334	CGGUGUCUGU	G	CCCGG	1605	CCGGG UGAUGGCAUGCACUAUGCGCG	ACAGACACCG	4384

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1358	GCAGGGCUCU G UGGGG	1606	CGUGA	UGAUGGCAUGCACUAUGCGCG	AGAGCCCUGG	4385
1370	GGCGGCCCCC G AAGAG	1607	CUCCU	UGAUGGCAUGCACUAUGCGCG	GGGGCCGCC	4386
1395	GACCCCUCCU G CUUGG	1608	CCAGG	UGAUGGCAUGCACUAUGCGCG	GACGGGGGUC	4387
1402	GUCGCUUGGU G CAGCU	1609	AGCGG	UGAUGGCAUGCACUAUGCGCG	ACCAGGCGAC	4388
140?	UGGGGAGCG G CCCCU	1610	CGGAG	UGAUGGCAUGCACUAUGCGCG	AGCGGCACCA	4389
1413	CAGCGGCUCU G CCAGC	1611	GCUGG	UGAUGGCAUGCACUAUGCGCG	GGAGCAGCUG	4390
1438	CCUGGCAGGU G UACGG	1612	CGGUA	UGAUGGCAUGCACUAUGCGCG	ACCUGCCAGG	4391
1450	AGGGGGCCGU G CGGGC	1613	GCGGG	UGAUGGCAUGCACUAUGCGCG	ACGAAGCCGU	4392
1452	GUGGGGGCCG G CCGGC	1614	GAAGG	UGAUGGCAUGCACUAUGCGCG	AGGCCGCAC	4393
1462	GGCCCGGCCU G CCUGC	1615	CGGAG	UGAUGGCAUGCACUAUGCGCG	AGGCAGCCC	4394
1464	GCGGGGCUGC G CCGU	1616	GAGGG	UGAUGGCAUGCACUAUGCGCG	GCAGGCAGGC	4395
1474	GCCGGCUGGU G CCCCC	1617	GGGGG	UGAUGGCAUGCACUAUGCGCG	ACCAGCCGGC	4396
1505	CACGCAUAAC G AACUC	1618	GCGGU	UGAUGGCAUGCACUAUGCGCG	GUUGUGCCUG	4397
1509	GACAACGAAC G GCGGU	1619	AGCGG	UGAUGGCAUGCACUAUGCGCG	GUUCGCGGCG	4398
1512	AACGAACCCC G CUUGC	1620	GGAAG	UGAUGGCAUGCACUAUGCGCG	GGCGUUCGUU	4399
1556	GCGGAAGCAU G CCAAG	1621	CUUGG	UGAUGGCAUGCACUAUGCGCG	AUGCUUCCCC	4400
150?	GCCAGCGCUC G CUGCA	1622	UCCAG	UGAUGGCAUGCACUAUGCGCG	GAGAGCUUGG	4401
1570	AGCCCCGCCU G CAGGA	1623	UCCUG	UGAUGGCAUGCACUAUGCGCG	ACCGAGAGCU	4402
1579	UGCAGGAGCU G ACGGG	1624	CACGU	UGAUGGCAUGCACUAUGCGCG	AGCUCCUGCA	4403
1591	CGUGGAAGAU G AGCGU	1625	ACGGU	UGAUGGCAUGCACUAUGCGCG	AAUUUCCACG	4404
1597	AGAUGAGCGU G CCCAA	1626	GCCCG	UGAUGGCAUGCACUAUGCGCG	ACGCUCAUCU	4405
1605	GUCGCGGACU G CCCUU	1627	AAGUG	UGAUGGCAUGCACUAUGCGCG	AGUCCCGCAC	4406
1607	CGGGCUGCCC G CUUGG	1628	CCAAG	UGAUGGCAUGCACUAUGCGCG	GCAGUCCCGC	4407
1615	GCGCUUGGCU G CGCAG	1629	CUGGG	UGAUGGCAUGCACUAUGCGCG	AGCCAAGCGC	4408
1617	GCUUGGCUGC G CAGGA	1630	UCCCG	UGAUGGCAUGCACUAUGCGCG	GCAGCCAAGC	4409
1638	GGGGUUGCUU G UGUUC	1631	GAACA	UGAUGGCAUGCACUAUGCGCG	AGCCAACCCC	4410
1640	GGUUGCUUGU G UUCCG	1632	CGGAA	UGAUGGCAUGCACUAUGCGCG	ACAGCCAACC	4411
164?	UGCCCGGGUC G CAGAG	1633	CUCCG	UGAUGGCAUGCACUAUGCGCG	GGCGGGUACA	4412
1663	AGCACGCGUU G CGGGA	1634	UCACG	UGAUGGCAUGCACUAUGCGCG	AGACGGUGCU	4413
166?	CGGUCCCGCU G AGGAG	1635	CCCCU	UGAUGGCAUGCACUAUGCGCG	AGGGAGACGG	4414
1690	CCAAGUCCGU G CACUG	1636	CAGUG	UGAUGGCAUGCACUAUGCGCG	AGGAACUUGG	4415

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1699	UGCACUCGGUU	G	AUGAG	1637	CUCAU	UGAUGAU AUGCACUAUGCGGCG	AGCCAGUGCA	4416
1702	ACUGGUGAU	G	AGCGU	1638	ACAUU	UGAUGGCAUGCACUAUGCGGCG	AUCAGCCAGU	4417
1706	GUUGAUGAGU	G	UGUAC	1639	GUACA	UGAUGGCAUGCACUAUGCGGCG	ACUCAUCAGC	4418
1708	UGAUGAGUGU	G	UACGU	1640	ACGUA	UGAUGGCAUGCACUAUGCGGCG	ACACUCAUCA	4419
1718	GUACGUGGUU	G	AGGUG	1641	CAGGU	UGAUGGCAUGCACUAUGCGGCG	GACGAGGUAC	4420
1723	UCGUGGAGCU	G	CUCAG	1642	CUGAG	UGAUGGCAUGCACUAUGCGGCG	AGUUCGAGGA	4421
1742	UUGCCUUUAU	G	UCAUG	1643	UGUGA	UGAUGGCAUGCACUAUGCGGCG	AUAAAAGAAA	4422
1795	CCGAAUAUU	G	CUGAU	1644	CCAUU	UGAUGGCAUGCACUAUGCGGCG	ACUCUCCGGG	4423
1807	GGAGUAGGU	G	CAAAG	1645	CUUUG	UGAUGGCAUGCACUAUGCGGCG	AACUGCUCC	4424
1834	GACAGCACUU	G	AAGAG	1646	CUCUU	UGAUGGCAUGCACUAUGCGGCG	AAGUGCUGCC	4425
1843	GUGAAAGGGU	G	CAGGU	1647	AGUGC	UGAUGGCAUGCACUAUGCGGCG	ACCGUCCUCA	4426
1842	GGGGGCACGU	G	CGGAA	1648	CCGGG	UGAUGGCAUGCACUAUGCGGCG	AGUGCAGCC	4427
1858	UGUGGGAGCU	G	UCGGA	1649	UCCGA	UGAUGGCAUGCACUAUGCGGCG	AGUUCCGGCA	4428
1899	AGUCACGGC	G	CCGGG	1650	CCGGG	UGAUGGCAUGCACUAUGCGGCG	GGACCUGGCU	4429
1903	GGCCCGGCCU	G	CUGAU	1651	GUCAG	UGAUGGCAUGCACUAUGCGGCG	AGGGUGGCC	4430
1906	CCGGCCUUGCU	G	AUGUC	1652	GACGU	UGAUGGCAUGCACUAUGCGGCG	AGCAGGGCGG	4431
1920	UCCAGUUCC	G	CUUCA	1653	UGAAG	UGAUGGCAUGCACUAUGCGGCG	GGAGGCUGGA	4432
1937	CCCUAAGCCU	G	ACGGG	1654	CCCGU	UGAUGGCAUGCACUAUGCGGCG	AGGCUUGGGG	4433
1945	CUGACGGGU	G	CGGUC	1655	GACCG	UGAUGGCAUGCACUAUGCGGCG	AGCCCGUCAG	4434
1951	GGUGCGGUC	G	AUUGU	1656	ACAAU	UGAUGGCAUGCACUAUGCGGCG	GGACGUAGCC	4435
1955	CGGUCGAUU	G	UGAAU	1657	GUUCA	UGAUGGCAUGCACUAUGCGGCG	AAUCGGCGGC	4436
1957	GGUCGAUUGU	G	AACAU	1658	AUGUU	UGAUGGCAUGCACUAUGCGGCG	ACAAUCGGCC	4437
1992	AGAAUUUCC	G	CAGAU	1659	CUUGU	UGAUGGCAUGCACUAUGCGGCG	GGAACGUCCU	4438
2005	AAAGAUUCC	G	AGGGU	1660	ACCCU	UGAUGGCAUGCACUAUGCGGCG	GGUCUCUUU	4439
2025	GGCGCACCCGU	G	AGGCU	1661	ACCCU	UGAUGGCAUGCACUAUGCGGCG	GAGGUGAGAC	4440
2029	CCUGCAGGGU	G	AAGGC	1662	GCCUU	UGAUGGCAUGCACUAUGCGGCG	AACUUCGAGG	4441
2038	UGAAGGCACU	G	UUCAG	1663	CUGAA	UGAUGGCAUGCACUAUGCGGCG	AGUGCCUUCA	4442
2047	UGUUCAGCGU	G	CUCAA	1664	UUGAG	UGAUGGCAUGCACUAUGCGGCG	ACGCUGAACA	4443
2057	GUUCAGCUAC	G	AGGGG	1665	CCCCU	UGAUGGCAUGCACUAUGCGGCG	GUAGUUGAGC	4444
2065	ACGAGGGGC	G	CGGCG	1666	CGCCG	UGAUGGCAUGCACUAUGCGGCG	GCCGCCCGU	4445
2070	GGGGCGCGGC	G	CCCCG	1667	CGGGG	UGAUGGCAUGCACUAUGCGGCG	GCGCGCCCCG	4446

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2067	CGCCUUGGC G CCUCU	1665	AGAGG UGAUGGCAUGCACUAUGCGCG GCCCAGGAGG	4447
2092	GGCCGACUUU G UGCUG	1668	CAGGA UGAUGGCAUGCACUAUGCGCG AGAGGGCGGC	4448
2095	GCCCUUCUUU G CUCGG	1670	CCCAG UGAUGGCAUGCACUAUGCGCG ACAGAGGCGC	4449
2108	GGCCUGGAC G AUAUC	1671	GAGAG UGAUGGCAUGCACUAUGCGCG GUCCAGGCCC	4450
2127	AGGGCUUGGC G CACCC	1672	AGGUG UGAUGGCAUGCACUAUGCGCG GCCAGGCCCU	4451
2137	GCACCUUUGU G CGGCG	1673	CGCAG UGAUGGCAUGCACUAUGCGCG ACGAAGGUGC	4452
2140	CCUCGGUGCU G CGUGU	1674	ACACG UGAUGGCAUGCACUAUGCGCG AGCACGAAGG	4453
2141	GGGCGGCGGU G UGAUU	1675	CCGCA UGAUGGCAUGCACUAUGCGCG ACGCAGCACG	4454
2145	UGCUGCGUGU G CGGGC	1676	GCGGG UGAUGGCAUGCACUAUGCGCG ACACGCAGCA	4455
2161	GCCAGGAUU G CCGCC	1677	GCGGG UGAUGGCAUGCACUAUGCGCG GCGCCUGGGG	4456
2164	AGGAGCCGC G CCUGA	1678	GCAGG UGAUGGCAUGCACUAUGCGCG GACGGGUCCU	4457
2168	CCCGGGUCCU G AGCUG	1679	CAGUU UGAUGGCAUGCACUAUGCGCG AGGCGGCGGG	4458
2173	GCCUUAGCU G UACUU	1680	AAGUA UGAUGGCAUGCACUAUGCGCG AGCUCAGGCG	4459
2180	GCCGUACUUU G UCUAG	1681	CUUGA UGAUGGCAUGCACUAUGCGCG AAAGUACAGC	4460
2192	CAAGGGCAU G UGACC	1682	CGGCA GGAUGGCAUGCACUAUGCGCG AUCCACCUGG	4461
2194	AGGUGAUGG G ACGGG	1683	CCGGU UGAUGGCAUGCACUAUGCGCG ACAUCCACCU	4462
2201	UGUGACGGGC G CGUAU	1684	GUACC UGAUGGCAUGCACUAUGCGCG GCCCGUCACA	4463
2207	GGGCGGUAC G ACACC	1685	GGCGG UGAUGGCAUGCACUAUGCGCG GUACGGCGCC	4464
2243	GGCAGUCACC G CCAGC	1686	GCUGG UGAUGGCAUGCACUAUGCGCG GAUGACCCCC	4465
2274	AACACGUACU G CGUGC	1687	GUAUC UGAUGGCAUGCACUAUGCGCG AGUACGGGUU	4466
2278	CGUACUGCGU G CGUCG	1688	CGAUC UGAUGGCAUGCACUAUGCGCG AUGCAGUACG	4467
2288	GCGUCGCAU G CCGUG	1689	CACGG UGAUGGCAUGCACUAUGCGCG AUAACGACGC	4468
2305	GCGAGAAGUG G CCGAU	1690	AUGAC UGAUGGCAUGCACUAUGCGCG GGCUUCCUGG	4469
2324	GGGCACGGGU G AAGG	1691	GGUGG UGAUGGCAUGCACUAUGCGCG GGACGUGCCC	4470
2352	UCUCUACCUU G ACACA	1692	UGUGU UGAUGGCAUGCACUAUGCGCG AAGGUAGAGA	4471
2374	AGCCGUACAU G CGACA	1693	CGUGC UGAUGGCAUGCACUAUGCGCG AUGUACGGCC	4472
2376	CCGUACAUGC G ACAGU	1694	ACUGC UGAUGGCAUGCACUAUGCGCG GCAUGGUACGG	4473
2395	UGGCUCACCU G CAGGA	1695	UCCUG UGAUGGCAUGCACUAUGCGCG AGGUGAGCCA	4474
2410	AGACCAGCCC G CUCAG	1696	CUCAG UGAUGGCAUGCACUAUGCGCG GGGCUGGUCC	4475
2413	CCAGCCCGCU G AGGGA	1697	UCCCU UGAUGGCAUGCACUAUGCGCG AGGGGCUGG	4476
2420	GCUGAGGGAU G CCGUC	1698	GAUGG UGAUGGCAUGCACUAUGCGCG AUCCUCAGC	4477

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2432	UGGCGCAGC G AGUAG	1699	UGGAUGGCAUGCACUAUGCGCG	GAUGAGGAGG	4478
2449	GCCCCUCCC G AAUGA	1700	UGGAUGGCAUGCACUAUGCGCG	AGGGAGGAGG	4479
2455	UUCCCUGAAU G AGGCC	1701	UGGAUGGCAUGCACUAUGCGCG	AUUCAGGGAG	4480
2474	UGGCCGGUUC G ACGCC	1702	UGGAUGGCAUGCACUAUGCGCG	GAAGAGGCCA	4481
2487	GUCUUCCUAC G CUUCA	1703	UGGAUGGCAUGCACUAUGCGCG	GUAGGAAGAC	4482
2492	UACCUUCAU G GAGCA	1704	UGGAUGGCAUGCACUAUGCGCG	GUGGAGGGCA	4483
2496	GGCCCAUGU G CCAGC	1705	UGGAUGGCAUGCACUAUGCGCG	ACAUGAAGCG	4484
2504	GUGCCAUCAC G CUGUC	1706	UGGAUGGCAUGCACUAUGCGCG	GUGGUGGCAC	4485
2509	ACCACGAUGG G CCAAU	1707	UGGAUGGCAUGCACUAUGCGCG	ACGGCGAGGG	4486
2511	CACGCCCGCU G CAUCA	1708	UGGAUGGCAUGCACUAUGCGCG	GCACGGCGUG	4487
2539	UACGGCCAGU G CCAGG	1709	UGGAUGGCAUGCACUAUGCGCG	ACUGGACGGA	4488
2551	AGGGAGACCC G CAGGG	1710	UGGAUGGCAUGCACUAUGCGCG	GGGAUGCCCU	4489
2572	UCCCUCCCAC G CUGCU	1711	UGGAUGGCAUGCACUAUGCGCG	GUGGAGAGGA	4490
2575	UCCCCAGGGU G CCGGG	1712	UGGAUGGCAUGCACUAUGCGCG	AGGUUGGAGA	4491
2580	ACGGCCGCUU G CAGCC	1713	UGGAUGGCAUGCACUAUGCGCG	AGAGCAGCGU	4492
2587	UCUGCAGCUU G UCCUA	1714	UGGAUGGCAUGCACUAUGCGCG	AGCCUGCAGA	4493
2589	UGCAGCUGU G CUACG	1715	UGGAUGGCAUGCACUAUGCGCG	ACAGGUGGCA	4494
2597	GGGCAGGGC G ACAUG	1716	UGGAUGGCAUGCACUAUGCGCG	GCGGUAGCAC	4495
2614	AGAACAAGCU G UUUGC	1717	UGGAUGGCAUGCACUAUGCGCG	AGUUGUGGCU	4496
2618	CAAGUCGUUU G GCGGG	1718	UGGAUGGCAUGCACUAUGCGCG	AAACAGCUUG	4497
2641	GGCAGCGCU G CUCUU	1719	UGGAUGGCAUGCACUAUGCGCG	AGCCCGUCUC	4498
2647	GGCGGCUCCU G CGUGG	1720	UGGAUGGCAUGCACUAUGCGCG	AGGAGGAGGC	4499
2660	UUUGGUGGAU G AUUUC	1721	UGGAUGGCAUGCACUAUGCGCG	AUUCCACCAAA	4500
2668	AUGAUUCCUU G UUGGU	1722	UGGAUGGCAUGCACUAUGCGCG	AAGGAAUCAU	4501
2674	UCCUUUUGGU G ACACC	1723	UGGAUGGCAUGCACUAUGCGCG	ACCAACAAGA	4502
2692	GCUGAGCCAC G CGAAA	1724	UGGAUGGCAUGCACUAUGCGCG	GUGGUGGAGG	4503
2695	UGAGCCACGC G AAAAC	1725	UGGAUGGCAUGCACUAUGCGCG	GUGUGGGUGA	4504
2741	ACCCUGGUCC G AGGUG	1726	UGGAUGGCAUGCACUAUGCGCG	GGACCAGGGU	4505
2726	GCUGGAGGGU G UUCCU	1727	UGGAUGGCAUGCACUAUGCGCG	ACCUGGGACC	4506
2732	AGGGUCCCCU G AGUAU	1728	UGAUGGCAUGCACUAUGCGCG	AGGGACACCU	4507
2742	GAGUAUGGCU G CGGGG	1729	UGGAUGGCAUGCACUAUGCGCG	AGCCAUACUC	4508

2749	GCUGCGUUGU	G	AACUU	1730	AAGUU UGAUGGCAUGCACUAUGCGCG	ACCACGCAGC	4509
2755	UGGUCAAGUU	G	CGGAA	1731	UGCUU UGAUGGCAUGCACUAUGCGCG	AAGUUCACCA	4510
2770	AGACAGUGGU	G	AACUU	1732	AAGUU UGAUGGCAUGCACUAUGCGCG	ACCACUGUCU	4511
2780	GAACUUGCGG	G	UAGAA	1733	UUCUA UGAUGGCAUGCACUAUGCGCG	AGGGAAGUUC	4512
2799	UGUAGGAAGAC	G	AGGCC	1734	GGCCU UGAUGGCAUGCACUAUGCGCG	GUCUUCUACA	4513
2813	CACGGCGUUU	G	UUCAG	1735	CUGAA UGAUGGCAUGCACUAUGCGCG	AAAAGCGUG	4514
2824	UUGUUCAGAU	G	CCCGG	1736	GCCGG UGAUGGCAUGCACUAUGCGCG	AUCUGAACAA	4515
2847	UUCCCUGGU	G	CCGCC	1737	GGCGG UGAUGGCAUGCACUAUGCGCG	ACCAGGGGAA	4516
2854	GGGCGGCCAU	G	CUGGU	1738	AGCAG UGAUGGCAUGCACUAUGCGCG	AGGCGCACC	4517
2857	GUGGCCUGCU	G	UUGGA	1739	UCCAG UGAUGGCAUGCACUAUGCGCG	AGCAGCCGC	4518
2881	GCCGGAGGU	G	CAGAU	1740	AUCUG UGAUGGCAUGCACUAUGCGCG	ACCUUCAGGG	4519
2889	GGGCGAGAGC	G	ACUAC	1741	GUAGU UGAUGGCAUGCACUAUGCGCG	GCUCUUCACC	4520
2903	CUCCAGCUAG	G	CCCGG	1742	CCCGG UGAUGGCAUGCACUAUGCGCG	AUAGUUGGAG	4521
2940	ACCUUCAACC	G	CCGCC	1743	GGCGG UGAUGGCAUGCACUAUGCGCG	GGUGGAAGGC	4522
2955	GGAGCGAAAU	G	GGGCG	1744	CGCCC UGAUGGCAUGCACUAUGCGCG	AUGUUCGCCC	4523
2970	AAGAGGCGGC	G	CAAAU	1745	AGUUG UGAUGGCAUGCACUAUGCGCG	GAGGCAUGUU	4524
2985	UUGGGGUCUU	G	CCCGG	1746	AGUUG UGAUGGCAUGCACUAUGCGCG	AAAGCCGCAA	4525
2995	GCUUCCUGCU	G	AAGGG	1747	CAGUU UGAUGGCAUGCACUAUGCGCG	AGCGCGAAGA	4526
3000	GCCUUGAAGU	G	CCACA	1748	UGUGA UGAUGGCAUGCACUAUGCGCG	ACUUCAGCCG	4527
3010	GUCACGGCCU	G	UUUCU	1749	AGAAA UGAUGGCAUGCACUAUGCGCG	AGGCGUGGAC	4528
3022	UUCUGGAUUU	G	CAGGU	1750	ACCUG UGAUGGCAUGCACUAUGCGCG	AAAUCCAGAA	4529
3028	AUUUGCAGGU	G	AACAG	1751	CUGUU UGAUGGCAUGCACUAUGCGCG	ACCUGCAAAU	4530
3046	UCCAGACGGU	G	UGUAU	1752	GGGUA UGAUGGCAUGCACUAUGCGCG	ACGGUCUGGA	4531
3049	CAGACGGUGU	G	CACCA	1753	UGGGG UGAUGGCAUGCACUAUGCGCG	ACACCGUCUG	4532
3073	AGAUCCUGCU	G	UUUCA	1754	UGAAG UGAUGGCAUGCACUAUGCGCG	AGGAGGAUCU	4533
3076	UCCUGCUGCU	G	CAGGC	1755	GCCUG UGAUGGCAUGCACUAUGCGCG	AGCAGGAGGA	4534
3095	CAGUUUCAC	G	CAUGU	1756	ACAUG UGAUGGCAUGCACUAUGCGCG	GUGAAACCUG	4535
3099	UUUCACGCAU	G	UGUGC	1757	GCACA UGAUGGCAUGCACUAUGCGCG	AUGCGUGGAAA	4536
3101	UCACGCAUGU	G	UCCUG	1758	CAGGA UGAUGGCAUGCACUAUGCGCG	ACAUGCGUGA	4537
3103	ACGCAUGUGU	G	GUGGA	1759	UGCAG UGAUGGCAUGCACUAUGCGCG	ACACAUGCGU	4538
3106	CAUGUGUGCU	G	CAUUU	1760	AGUUG UGAUGGCAUGCACUAUGCGCG	AGCACACAUG	4539

3154	CAUUUUUCUU G CCGCGC	1761	AUGGG UGAUGGCAUGCACUAUGCGCG AGGAAAAAUG	4540
3156	UUUUCCUGC G CGGCA	1762	UGAGG UGAUGGCAUGCACUAUGCGCG GCAGGAAAAA	4541
3167	CGUCAUUCUU G ACAAG	1763	CGUGU UGAUGGCAUGCACUAUGCGCG AGAGAUGAGG	4542
3183	CCUCCUUCUU G CUAGU	1764	AGUAG UGAUGGCAUGCACUAUGCGCG AGAGGAAGGC	4543
3195	ACUUCAUGCU G AAAGU	1765	GCUGU UGAUGGCAUGCACUAUGCGCG AGGAUGGAGU	4544
3205	AGGCAAGAAC G CAGGG	1766	CUCUG UGAUGGCAUGCACUAUGCGCG GUCCUGGGCU	4545
3217	ACUCAUGAU G UCUGUU	1767	AGCCA UGAUGGCAUGCACUAUGCGCG AUCCUUGCGU	4546
3220	CAGGGAUGUC G CUGGG	1768	CUCAG UGAUGGCAUGCACUAUGCGCG GAUAUCCCUG	4547
3236	GGCAAGGGC G CCGGC	1769	GGCGG UGAUGGCAUGCACUAUGCGCG GUCCUUGGCC	4548
3239	CAAGGGCGC G CCGGC	1770	GCCGG UGAUGGCAUGCACUAUGCGCG GGCGCCUUG	4549
3250	CCGGCCCUCU G CCCUC	1771	GAGGG UGAUGGCAUGCACUAUGCGCG AGAGGGCGGG	4550
3257	UCUGCCCUU G AGGCC	1772	GCCUU UGAUGGCAUGCACUAUGCGCG GUAGGCAGA	4551
3265	CUGAGGCGGU G CAGGG	1773	GAUGG UGAUGGCAUGCACUAUGCGCG ACGGCUUCGG	4552
3274	UGCAGGGCGU G GGCCA	1774	UGGCA UGAUGGCAUGCACUAUGCGCG AGCCACUGCA	4553
3276	CAGUGGAUGU G CCANC	1775	GGUGG UGAUGGCAUGCACUAUGCGCG ACAGCCACUG	4554
3292	AAGCAUUCCU G CUCAA	1776	UUUGAG UGAUGGCAUGCACUAUGCGCG AGGAAUGCUU	4555
3301	UGUUCAAGCU G ACUUG	1777	GCAGU UGAUGGCAUGCACUAUGCGCG AGCUUGAGCA	4556
3306	AAGCUGAUUC G ACAGC	1778	GCUGU UGAUGGCAUGCACUAUGCGCG GAUUCAGCUU	4557
3314	UCGACCACGU G UCACC	1779	GGUGA UGAUGGCAUGCACUAUGCGCG ACAGUGUCGA	4558
3325	UCACCUACGU G CCACU	1780	AGUGG UGAUGGCAUGCACUAUGCGCG ACUUAGCUGA	4559
3358	CAGCCCAGAC G CAGCU	1781	AGCUG UGAUGGCAUGCACUAUGCGCG GUCUGGGCUG	4560
3364	AGAUGCAGCU G AGUCC	1782	GGACU UGAUGGCAUGCACUAUGCGCG AGUUAGGGA	4561
3385	CCCCGGGCGC G AGGCU	1783	AGCGU UGAUGGCAUGCACUAUGCGCG GUCCCCGGGA	4562
3388	CCCCCGCCAU G UUGAU	1784	GGCAG UGAUGGCAUGCACUAUGCGCG CUCGUCCCCG	4563
3391	GGAGGAGGCU G AGUGC	1785	GCAGU UGAUGGCAUGCACUAUGCGCG AGCGUCGGCG	4564
3395	GAGCUGGACU G CCCUG	1786	CAGGA UGAUGGCAUGCACUAUGCGCG AGUCAGCGUC	4565
3407	CCUGGAGGCC G CAGCC	1787	GGUGG UGAUGGCAUGCACUAUGCGCG GCCUUCCAGG	4566
3424	ACCCGGCACU G CCCUC	1788	GAGGG UGAUGGCAUGCACUAUGCGCG AGUGCUGGGU	4567
3453	AUCCUGGACU G AUGGC	1789	GGCAU UGAUGGCAUGCACUAUGCGCG AGUCCAGGAU	4568
3464	AUGGCCCAC G CCCAC	1790	GGGGG UGAUGGCAUGCACUAUGCGCG GGGUGGCCAU	4569
3479	CAGCCAGGCC G AGAGC	1791	GGUGU UGAUGGCAUGCACUAUGCGCG GGCCUGGCUG	4570

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3501	CAGGAGCCCU G UCCAG	1792	CCGAA UGAUGGCAUGCAUGCACUAUGCGCG AGGGCUGCUG	4571
3506	GCCCGGCAC G CCGGG	1793	CCGGG UGAUGGCAUGCAUGCACUAUGCGCG GUGACAGGGC	4572
3554	ACCCAGGGGC G CAGGG	1794	CCGGG UGAUGGCAUGCAUGCACUAUGCGCG GGGCUGGGU	4573
3559	GGGCCGACC G CGGGG	1795	CCCAG UGAUGGCAUGCAUGCACUAUGCGCG GGUGUGGGGC	4574
3570	CUGGGAGUCU G AGGGG	1796	GGGGU UGAUGGCAUGCAUGCACUAUGCGCG AGAUCCCAG	4575
3577	UCGGAGCCCU G AGGGA	1797	UCGAU UGAUGGCAUGCAUGCACUAUGCGCG AGGGCUCAGA	4576
3581	AGGCUGAGU G AGUGU	1798	ACAUU UGAUGGCAUGCAUGCACUAUGCGCG ACUCAGGCCU	4577
3585	CCGAGGGAGU G UUUGG	1799	CUAAA UGAUGGCAUGCAUGCACUAUGCGCG ACUCACUCAG	4578
3593	GUGUUUGGGC G AGGGC	1800	GGCCU UGAUGGCAUGCAUGCACUAUGCGCG GGCCAAACAC	4579
3600	GGGGAGGGUU G CAGGG	1801	AGGGC UGAUGGCAUGCAUGCACUAUGCGCG AGGCCCUGGC	4580
3604	AGGCCGCAU G UCCCG	1802	CCGAA UGAUGGCAUGCAUGCACUAUGCGCG AUGCAGGCCU	4581
3613	AUGCGGGGGU G AAGGU	1803	GGCUU UGAUGGCAUGCAUGCACUAUGCGCG AGCCGGACAU	4582
3619	GUGGAAGGGU G AGGGU	1804	ACAUU UGAUGGCAUGCAUGCACUAUGCGCG AGCCCUCAGC	4583
3623	AAGGGGGAGU G UCCGG	1805	CCGGA UGAUGGCAUGCAUGCACUAUGCGCG ACUCAGCCUU	4584
3631	GGGGCGGGG G AGGGC	1806	GGCCU UGAUGGCAUGCAUGCACUAUGCGCG AGCCGGACAC	4585
3638	GGGAAGGGUU G AGGGA	1807	CUGGU UGAUGGCAUGCAUGCACUAUGCGCG AGGCCUCAGC	4586
3642	AGGCUGAAC G AGGGU	1808	ACAUU UGAUGGCAUGCAUGCACUAUGCGCG GUUCAGGCCC	4587
3646	GGGAGGGAGU G UCCAG	1809	CCGGA UGAUGGCAUGCAUGCACUAUGCGCG ACUCGCUCAG	4588
3661	GGGAAGGGGU G AGGGU	1810	ACAUU UGAUGGCAUGCAUGCACUAUGCGCG AGCCCUUGGC	4589
3655	AGGGCGGGAU G CCCAG	1811	CUGGA UGAUGGCAUGCAUGCACUAUGCGCG ACUCAGCCCU	4590
3678	CAGCCACCU G CCGGG	1812	GACGG UGAUGGCAUGCAUGCACUAUGCGCG AGGUGUGCUG	4591
3705	ACAGGCUGGC G CCGGG	1813	CCGAG UGAUGGCAUGCAUGCACUAUGCGCG GUCAGCCUGU	4592
3785	CCCCAAAUDC G CCAUU	1814	AAGGG UGAUGGCAUGCAUGCACUAUGCGCG GAAUCCGAGG	4593
3795	AUGGGCAAUC G UUCAC	1815	GGCAA UGAUGGCAUGCAUGCACUAUGCGCG AAUGGCGAAU	4594
3806	UUCAGGGGCU G CCGGG	1816	CAGGG UGAUGGCAUGCAUGCACUAUGCGCG GAGGGUUGAA	4595
3811	GGGCCGCCU G CCGUC	1817	GAGGG UGAUGGCAUGCAUGCACUAUGCGCG AGGGCGAGGG	4596
3821	GGGGGGUUU G CCGUG	1818	GAAGG UGAUGGCAUGCAUGCACUAUGCGCG AAAAGAGGGC	4597
3854	UGGAGAGCCU G AGAAG	1819	CCGGG UGAUGGCAUGCAUGCACUAUGCGCG AGGGCCUCCA	4598
3883	AAUUGGGAGU G ACCAA	1820	CUGGU UGAUGGCAUGCAUGCACUAUGCGCG ACUCCAAAUU	4599
3893	GACCAAACCU G UGGGG	1821	GGGCA UGAUGGCAUGCAUGCACUAUGCGCG ACUUUGGUC	4600
3900	CCAAAGGUGU G CCGUG	1822	CAGGG UGAUGGCAUGCAUGCACUAUGCGCG ACACCUUUGG	4601

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3905	GGGGGGGGG G GACAC	1823	GGGUA UGAUGGCAUGCACUAUGCGCG AGGGCACACC	4602
3915	GUACACAGGC G AGGAC	1824	GGCCC UGAUGGCAUGCACUAGCGCG GCCUGUGUAC	4603
3924	CGAGGACCCU G CACCU	1825	AGGUG UGAUGGCAUGCACUAUGCGCG AGGGUCCUGG	4604
3944	GGGGCCCCU G GGAAU	1826	AGGUA UGAUGGCAUGCACUAUGCGCG AGGGAGGCCC	4605
3966	GGGGGAGGU G CCGUG	1827	GACAG UGAUGGCAUGCACUAUGCGCG AGUUGGGCCC	4606
3965	GGGGGGUGCU G GGGAA	1828	GGGCA UGAUGGCAUGCACUAUGCGCG AGCACGUCCC	4607
3985	GUAAAAUACU G AAUAU	1829	AUAUU UGAUGGCAUGCACUAUGCGCG AGGAUUUUAC	4608
3993	CUGAAUAUAU G AGUUU	1830	AAACU UGAUGGCAUGCACUAUGCGCG AUAUAUUCAG	4609
4008	UUUCAGUUUU G AAAAA	1831	UUUUU UGAUGGCAUGCACUAUGCGCG AAAAAUGAAA	4610

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp), Nakamura et al., Science 277 (5328), 955-959 (1997)

Input Sequence = TERT. Cut Site = YG/M or UG/U.

Stem Length = 5/10. Core Sequence = UGAUG GCAUGCACUAUGC GCG

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Table VI

Table VI: Human telomerase reverse transcriptase (TERT) DNAzyme and Target Sequence

nt. Position	DNAzyme Sequence	Seq. ID Nos	Substrate	Seq. ID Nos
9	CAGGAGGC GGCTAGCTACAACGA AGGGCTGG	1832	GCAGCCCU G GCGUCCUG	4611
11	AGCAGGAC GGCTAGCTACAACGA GTAGGGCT	1833	AGCCCUAC G GUCCUGCU	4612
16	TCGGCAGC GGCTAGCTACAACGA AGGAGGCA	1834	UGCCUCCU G GUAGGGCA	4613
19	ACGTGGGC GGCTAGCTACAACGA AGCAGGAC	1835	GUCCUGCU U GCGCACGU	4614
21	CCACGTGC GGCTAGCTACAACGA GTAGGGCA	1836	AUGCCUGC G GCACGUGG	4615
23	TCCCACGT GGCTAGCTACAACGA GGGCAGCA	1837	UGCUGCGC A ACGUGGGA	4616
25	CTTCCCAC GGCTAGCTACAACGA GTGCGCAG	1838	CUGCGCAC G GUGGGAAG	4617
32	GCCAGGGC GGCTAGCTACAACGA TTCCCACG	1839	CGUGGGAA G GCCCUGGC	4618
38	GCCGGGGC GGCTAGCTACAACGA CAGCGTCT	1840	AAGGCCCU G GCCCGGGC	4619
44	GGGGTGGC GGCTAGCTACAACGA CCGGGGCA	1841	GGCCGGGC A GCCACCCC	4620
47	GCCGCGGT GGCTAGCTACAACGA GAGCGGGG	1842	CCCGCGGC A ACCGCGGC	4621
53	GGCACGGC GGCTAGCTACAACGA GGGGGTGG	1843	CCACCCCC G GCCGUGCC	4622
56	CGCGGCAG GGCTAGCTACAACGA CACCCGGG	1844	CCCGGGUG G AGGCGGCG	4623
58	CCGCGGGC GGCTAGCTACAACGA AGCGGGGG	1845	CCCGCGAU G AGGCGGCG	4624
61	CAGCGGGC GGCTAGCTACAACGA GGCATGCC	1846	GCCAUGCC G GCGAUGCC	4625
63	GGGAGGGC GGCTAGCTACAACGA GCGGCATC	1847	GAUGCCGC G GAGGGCCC	4626
65	CGGGGAGC GGCTAGCTACAACGA GGGCGGCA	1848	UGCCGCGC G GUUCGGGG	4627
72	TCGGCAGC GGCTAGCTACAACGA GGGAGGGA	1849	CGUCCCUC G GUUGCGGA	4628
75	GGCTCGGC GGCTAGCTACAACGA AGGGAGGA	1850	UCCUCCCU G GCGGAGCC	4629
80	CGCAGGGC GGCTAGCTACAACGA TCGGCGGC	1851	GCUGCCGA G GCGUGGCG	4630
83	CAGCCGCAC GGCTAGCTACAACGA GGCTCGGC	1852	GCCGAGCC G GUGCCGGC	4631
85	GCCAGCCC GGCTAGCTACAACGA ACGGCGCG	1853	CGAGCCGG G GCGCGGCC	4632
87	CAGGCAGC GGCTAGCTACAACGA GCAGCCGT	1854	AGCGGCGC G GGGCCCUG	4633
94	TGGGCAGC GGCTAGCTACAACGA AGGGAGGG	1855	CGGUGGCU G GCGCGGCA	4634
97	GGCTGGGC GGCTAGCTACAACGA AGCAGGAA	1856	UCCUUGCU G GCAGGAGC	4635
99	GTCGCTGC GGCTAGCTACAACGA GCAGGAAG	1857	GCGGCGGC G GCAGCTAC	4636
102	CTAGTGGC GGCTAGCTACAACGA TGGCAGC	1858	GUUGCGGA G GCCACUAC	4637

Table VI

105	GGGGTAGT GGCTAGCTACAAGGA GGCTGCGC	1859	GGGCAGCC A ACUACCGC	4638
109	GGGGCGGC GGCTAGCTACAAGGA AGGGCCTG	1860	CAGCTAGC A ACCGCGAG	4639
111	CACCTGGC GGCTAGCTACAAGGA GGTAGTGG	1861	CCACUACC G GGCAGGUG	4640
116	GGCGCGAC GGCTAGCTACAAGGA CTGGCGGT	1862	ACGGCGAG G GUGCUGGC	4641
118	GGGGCAGC GGCTAGCTACAAGGA ACCTGGGC	1863	CGGCAAGU G GUUGCUGC	4642
121	CCAGGGGC GGCTAGCTACAAGGA AGGACCTC	1864	GAGGGGCG G GUUGCAGG	4643
124	TGGCCAGC GGCTAGCTACAAGGA GGTAGTAC	1865	GUGCUGGC G GUGGGCCA	4644
126	AAGGTGGC GGCTAGCTACAAGGA CAGGGGTA	1866	UGCGGCUG G GCCAGGUG	4645
131	ACGGAGGC GGCTAGCTACAAGGA GGGTAGTG	1867	CGCGGGCC A AGGUUCGG	4646
133	GCAGGAAC GGCTAGTTACAATGA GT-GCCAG	1868	CUGGUUAC G GUGCGUGC	4647
137	CGGGCGGC GGCTAGCTACAAGGA GAAGTGGG	1869	GUAGGUUC G GCGGUUUC	4648
139	GGGGCGGC GGCTAGTACAAGGA ACGAGGGT	1870	AGGGGCGU G GGGGAGUG	4649
142	CCAGGGGC GGCTAGCTACAAGGA GGGAGGAA	1871	UUCGGUGG G GUGCUGG	4650
144	GGGGAGGC GGCTAGCTACAAGGA GCCGGAGG	1872	GUGCGGGC G GUCUGGGG	4651
151	CCTGGCGC GGCTAGCTACAAGGA CCCAGGCA	1873	CGCGUGGG G GUCCCAGG	4652
159	GGGGCAGC GGCTAGTATCAAGGA CCTGGGGT	1874	GCCCUAGG G GUGGGCGG	4653
163	GGGGGCGGC GGCTAGTACAAGGA GAGGCGGG	1875	GAGGGUGG G GUAGUGGC	4654
166	GGGGCAGC GGCTAGCTACAAGGA GGGCAGGG	1876	GGGCGGGG G GUUGCUGC	4655
170	GGTTCGAC GGCTAGCTACAAGGA CAGGGGTG	1877	GGGGGGUG G GUGCAGGG	4656
172	GGGGCTGG GGCTAGGTACAAGGA ACCAGGCG	1878	GGGGUGGG G GUAGUGCG	4657
175	GGGGGGGC GGCTAGCTACAAGGA GTGGCGAG	1879	GCGGUGCA G GCGGCCGG	4658
177	GGGGCGGC GGCTAGCTACAAGGA GGTGGAGG	1880	GGGGCAGC G GCGGGGAC	4659
185	GGGGCGGC GGCTAGCTACAAGGA CGCGGCGG	1881	GGCGGGGG A ACCGGCGG	4660
188	GGGGGGGC GGCTAGCTACAAGGA GGGGGGGC	1882	GGGGGGGG G GGGGCUUU	4661
191	CGGAAAGC GGCTAGCTACAAGGA CGGGGGGT	1883	AGGGGGGG G GUUUCCGG	4662
198	CAGGGGGC GGCTAGCTACAAGGA GGAAAGGC	1884	GGGUUUCC G GUGGCGG	4663
200	AGCGGGGG GGCTAGCTACAAGGA GGGGAAGG	1885	GGGGGGGC G GCGCUGGU	4664
202	CCACUAGC GGCTAGCTACAATGA GCGCGGGAA	1886	UUGGGGGC G GCUGGUGG	4665
205	TGGGCGAC GGCTAGCTACAAGGA CAGGGGGC	1887	GGGGCGUG G GUGGGCCA	4666
209	CACTGGGC GGCTAGCTACAAGGA CACCAGGG	1888	GGCUGGUG G GCCCAGUG	4667
214	CCAGGCGC GGCTAGCTACAAGGA GGGGCCAC	1889	GGGGCCCA G GCGCCUGG	4668

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215	CACGGAGC GGCTAGCTACAAGGGA ACTGGGGC		1890	GGCCCAGU G GCCUGGGG		4669
221	AGGCACGC GGCTAGCTACAAGGGA GGGGCACT		1891	AGGGCCUG G GUGCGCGU		4670
223	GCAGGGAG GGCTAGCTACAAGGGA ACGAGGCA		1892	GGCUUGGU G GUGCGGUGC		4671
225	GGGAGGGC GGCTAGCTACAAGGGA AGACCAGG		1893	CCUGGUGU G GGAGGCCC		4672
227	CAGGGAAC GGCTAGCTACAAGGGA GCACACCA		1894	UGGUGUGC G GUGCCCUG		4673
229	GCCAGGGC GGCTAGCTACAAGGGA ACGCACAC		1895	GGGGUGGC G GGCUGAGG		4674
237	GGGGUGU GGCTAGCTACAAGGGA CCCAGGGC		1896	GCCCUGGG A ACGCACGG		4675
239	GGGGCGGC GGCTAGCTACAAGGGA GGCCCAGG		1897	GCCGGGAU G GCACGGCC		4676
241	GGGGCGGC GGCTAGCTACAAGGGA GCGTCCCA		1898	UGGAAGGC A ACGGCGGC		4677
244	GGGGCGGC GGCTAGCTACAAGGGA GGTGGTTC		1899	GAGGGAGG G GUGGGGGC		4678
247	GGGGGGC GGCTAGCTACAAGGGA GGCGCGGC		1900	GGAGGGC G GCGGGGCG		4679
254	GGGGAGGC GGCTAGCTACAAGGGA GGGGGGGG		1901	CGGGGGC G GCGGGGCC		4680
257	GAGGGGAG GGCTAGCTACAAGGGA GGGGGGGG		1902	CGGGGGCC G GCGGGUUC		4681
270	CAGGGGGC GGCTAGCTACAAGGGA GGGAGGGA		1903	CUGCUUGC G GCCAGGUG		4682
275	CAGGGAAC GGCTAGCTACAAGGGA TTGGGGGA		1904	GCGGCCAG G GUGGCCUG		4683
277	GGCAGGAU GGCTAGCTACAAGGGA AGCGAGGCG		1905	GGCUAGGU G GUCCUGGCC		4684
282	CTTCGGGC GGCTAGCTACAAGGGA AGGACAGC		1906	GGGGCGGU G GCCUGGAG		4685
292	CCAGGAGC GGCTAGCTACAAGGGA TCTTCCAG		1907	CGGAAGGA G GCUGGCGG		4686
296	CGGGCGAC GGCTAGCTACAAGGGA CAGCTGCT		1908	AGGAGCUG G GUGGCGGG		4687
299	ACTGGAGC GGCTAGCTACAAGGGA CACCCAGCT		1909	AGUGCCUG G GCGCGAGU		4688
305	TGCAGGAC GGCTAGCTACAAGGGA UCGGGGCCA		1910	UGGGCCGA G GAGCUCGA		4689
307	TCTGCAGC GGCTAGCTACAAGGGA ACTGGGGC		1911	GGGGAGCU G GUGCGAGA		4690
310	GGCGGGGC GGCTAGCTACAAGGGA AGCACTTG		1912	CGGGGUCU G GCAGAGGC		4691
316	CGCACGAC GGCTAGCTACAAGGGA CTCCGCAG		1913	GGCGGGAG G GCGGUGCG		4692
319	GCTGCGGC GGCTAGCTACAAGGGA AGCCTCTG		1914	CAGAGGCU G GGGCGAGC		4693
321	GGGGTGGC GGCTAGCTACAAGGGA ACAGCCGC		1915	GAGGGUGU G GCGAGGGC		4694
325	CGGGGGC GGCTAGCTACAAGGGA GGCCAACAG		1916	CUGGGCGA G GCGGGGGG		4695
327	GGCGGGGC GGCTAGCTACAAGGGA GGTGCCAC		1917	GGCGGAGC G GGGGCCGG		4696
330	CTTCGGGC GGCTAGCTACAAGGGA GGCGCTGG		1918	CGGAGGGG G GCGCGAAG		4697
332	TTCTTCGC GGCTAGCTACAAGGGA GCGGGGCT		1919	AGCGGGGC G GGGGAGAA		4698
339	CAGCACGC GGCTAGCTACAAGGGA TCTTCGGC		1920	CGGGAAGA A ACGGGCUG		4699

Table VI

341	GGGAGGAC GGCTAGCTACAAAGGA GTCTTCG	1921	CGAAGAAC G GUGCUGGC	4700
343	AGGCCAGC GGCTAGCTACAAAGGA AGGTTCTT	1922	AAGAACGU G GCUGGCCU	4701
347	CGGAAGGC GGCTAGCTACAAAGGA CAGAAGT	1923	AGGUGCUG G GCCUUCGG	4702
354	GGGAAGGC GGCTAGCTACAAAGGA CGAAGGGC	1924	GCCUUCGG G GCUGCGCG	4703
359	AGGAGGGC GGCTAGCTACAAAGGA GAAGGGGA	1925	UCGGCUUC G GCGCUGCU	4704
361	CCAGCAGC GGCTAGCTACAAAGGA GCGAGGCC	1926	GGCUUCGG G GCUGCUGG	4705
364	CGGCTAGC GGCTAGCTACAAAGGA AGGGGGGA	1927	UUGGGGUU G GUUGGACG	4706
365	GGGCGGGT GGCTAGCTACAAAGGA CGAGCAGC	1928	GCUGCUGG A ACGGGGCC	4707
374	CGGGGGGC GGCTAGCTACAAAGGA CGGGCCCA	1929	UGGACGGG G GCCCGGGG	4708
379	GGGGGGGC GGCTAGCTACAAAGGA GGGCCCCG	1930	CGGGGGGG G GCGGGGGC	4709
384	GGGGGGGC GGCTAGCTACAAAGGA CGGGGCGG	1931	CGGGGGGG G GCCCCCCC	4710
395	GTGAAGGG GGCTAGCTACAAAGGA CTGGGGGG	1932	CGGGGAGG G GCUUUCAC	4711
401	CGGGGGGT GGCTAGCTACAAAGGA GAAGGCCT	1933	AGGUUUUU A ACCACCAG	4712
404	ACGGGGGT GGCTAGCTACAAAGGA GGTGAAGG	1934	CCUGCACU A ACCAGCGU	4713
408	GGGGGGGC GGCTAGCTACAAAGGA TGGTGGTG	1935	CACUACCA G GCGGGCGC	4714
410	CTGGGGAC GGCTAGCTACAAAGGA GGT-GTGG	1936	GGAGCAGC G GGGCGCAG	4715
412	AGCTGGGC GGCTAGCTACAAAGGA ACGTGGT	1937	ACCAGCGU G GCGCAGCC	4716
414	GTAGGGGC GGCTAGCTACAAAGGA GCAGCCTG	1938	CAGGCGGC G GCAGCUAC	4717
417	CAGGTAGC GGCTAGCTACAAAGGA TGGGGAGG	1939	CGGGCGCA G GCACCUUG	4718
420	GGGGAGGT GGCTAGCTACAAAGGA AGCTGCGC	1940	GGGCAGCU A ACCUGCCC	4719
424	TGTTGGGC GGCTAGCTACAAAGGA AGGTAGCT	1941	AGCUACCU G GCCCAACA	4720
429	CAGGGGGT GGCTAGCTACAAAGGA TGGGGGGG	1942	CCUGCCCA A ACACGGGG	4721
431	GTGAGGGT GGCTAGCTACAAAGGA GTTGGGCA	1943	UGGCCAAC A ACGGGGAC	4722
434	TGGGTGAC GGCTAGCTACAAAGGA GGTGTTGG	1944	ACAACAGG G GGGAACGA	4723
437	GGGGGGGT GGCTAGCTACAAAGGA CAGGGTGT	1945	ACACGGGG A ACCGACGC	4724
441	CAGTGGGT GGCTAGCTACAAAGGA GGGTGAGC	1946	GGGAACGA A ACGGACGG	4725
443	CGGAGTGC GGCTAGCTACAAAGGA GTGGGTCA	1947	GGACGGAC G GCACGGGC	4726
445	CGGGCAGT GGCTAGCTACAAAGGA GCGTGGGT	1948	ACGGACGC A AUGGGGGG	4727
448	TGGGGGGC GGCTAGCTACAAAGGA AGTGAGTC	1949	GACGGACU G GGGGGGGA	4728
456	CGGGGGGC GGCTAGCTACAAAGGA TGGGGGGT	1950	GGGGGGGA G GGGGGGCG	4729
451	CGGGAGGC GGCTAGCTACAAAGGA CGGGGGGC	1951	GGAGGGGG G GCGUGGGG	4730

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463	GCCCCAC GGCTAGCTACAAGGA GCCCGGT	1952	AGGGGGGC G GUGGGGGC	4731
469	GAAGAGC GGCTAGCTACAAGGA CCCCAGGC	1953	GGGGGGG G GCUGCUGC	4732
472	GCAGGAGC GGCTAGCTACAAGGA AGCCCCCA	1954	GGGGGGCU G GCUGCUUC	4733
475	GGGCGGC GGCTAGCTACAAGGA ACCACCC	1955	GGGCUGCU G GCUGGGGC	4734
478	GGGGGGC GGCTAGCTACAAGGA AGCCCUAG	1956	CUGCUGCU G GCGCCGCG	4735
480	CAGGCGGC GGCTAGCTACAAGGA GCAGGAGC	1957	GCUGCUGC G GCGGCGUG	4736
483	GGCCAGGC GGCTAGCTACAAGGA GCCGCAGC	1958	GCUGGCGU G GCGGGGGC	4737
485	TGGCCCAC GGCTAGCTACAAGGA GGGGAGGCA	1959	GGGGGAGC G GUGGAGGA	4738
489	GCGGTGGC GGCTAGCTACAAGGA CCAGGGGG	1960	CCGGGAGG G GGGACGAC	4739
492	CAGGTCGC GGCTAGCTACAAGGA CCCGGAGG	1961	CGGGGGCG A ACGAGGUG	4740
495	CAGGACGG GGCTAGCTACAAGGA CGCGGCCC	1962	GGGCGACG A ACGGGCUG	4741
497	ACCAGCAC GGCTAGCTACAAGGA GTCCTGGC	1963	GGGACGAC G GGGCUGCU	4742
499	GAACCAGC GGCTAGCTACAAGGA AGGCCGGC	1964	GAGGACGU G GCUGGUUC	4743
503	AGGTGAAC GGCTAGCTACAAGGA CAGCACGT	1965	ACGGGCUG G GUUCACCU	4744
507	CAGGAGGT GGCTAGCTACAAGGA GAACCAGC	1966	GUGGGUGC A ACGAGCUG	4745
511	GTGGCAGC GGCTAGCTACAAGGA AGGGGAAC	1967	GUUCACCU G GCUGGGAC	4746
515	CAGGTGAC GGCTAGCTACAAGGA CAGCAGGT	1968	ACUGGCUG G GCAGCUGG	4747
517	CGCAGGGT GGCTAGCTACAAGGA GCCAGCAG	1969	CGGCUGGG A AGGGUGGG	4748
519	GGGGCAGC GGCTAGCTACAAGGA GGGACGAGC	1970	GUGGGCAC G GUUGCGGG	4749
522	GAGGGGGC GGCTAGCTACAAGGA AGGGTGGC	1971	GGGCAGGCU G GGGGCGGC	4750
524	AAGAGAGG GGCTAGCTACAAGGA GCAGGGGG	1972	CAGGUUGC G GGGCCUCU	4751
526	CAAAGAGT GGCTAGCTACAAGGA GGGGAGGG	1973	CGGUGGGC G GUUGCUUUG	4752
533	ACGGGGAC GGCTAGCTACAAGGA AAAGAGGUG	1974	CGGGCUUUU G GUGGCUGGU	4753
535	CCACCAGC GGCTAGCTACAAGGA ACAAAGAG	1975	CUGGGGUU G GCUGGUGG	4754
539	GGAGGGGAC GGCTAGCTACAAGGA CAGGCACAA	1976	UUGGGCUG G GUGGCCCC	4755
542	CTGGGAGC GGCTAGCTA AAGGA CACCAGGCA	1977	CUCGGGGUG G GCUCCCAG	4756
549	GGGGGAGGT GG TAGCTACAAGGA TGGGGAGGC	1978	GGGUCCCA G GCUGGGCC	4757
552	GTAGGCGGC GGCTAGCTACAAGGA AGTGGGGA	1979	GGCCAGCU G GUGGGGAC	4758
554	TGGGAGGC GGCTAGCTACAAGGA GCAGGGUGG	1980	CCAGGGGC G GCCUACCA	4759
558	CAGGTGGT GGCTAGCTACAAGGA AGGGGGCAG	1981	CUGGGGGCCU A ACCAGGUG	4760
563	GGGGACAC GGCTAGCTACAAGGA CUGGTAGG	1982	CCUACCAG G GUGGUGGGG	4761

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565	GCCGGAGC GGCTAGCTACAAGGA ACTTGTA	1983	UACCAGGU G GUGCGGGGC	4762
567	CCGGGGC GGCTAGCTACAAGGA ACAGCTAG	1984	CUAAUGCU G GCGGGCCG	4763
571	CGGGGGC GGCTAGCTACAAGGA CCGCAUAC	1985	GUGUGCGG G GCCGCGGC	4764
574	ACAGCGGC GGCTAGCTACAAGGA GGCGCGCA	1986	UGCGGGGU G GCCGCUGG	4765
577	GGTACAGC GGCTAGCTACAAGGA GGCGGCCC	1987	GGGUGGCU G GUUGUACC	4766
580	GCTGGTAC GGCTAGCTACAAGGA AGGGGGAG	1988	CUAGCGCU G GUACUAGC	4767
582	GGGCGGT GGCTAGCTACAAGGA ATAGCTGC	1989	GUGCUGGU A ACCAGCUC	4768
586	CGGGGAGC GGCTAGCTACAAGGA TGGTACAG	1990	CGGUACCA G GUUGGCCG	4769
591	GGCAGCGC GGCTAGCACAAGGA CGGGGTGC	1991	CUAGCGCG G GGGUUGGC	4770
593	GTGGTAGC GGCTAGCTACAAGGA CGGGAGCT	1992	AGGUGGGC G GUUGCCAC	4771
595	TTAGTGGC GGCTAGCTACAAGGA AGGGGCGGA	1993	UUCGCGCU G GAGCUCGA	4772
599	GGCTGAGT GGCTAGCTACAAGGA GGCAGCGC	1994	GUCGUGGC A AUUCAAGC	4773
605	GGCGGGGC GGCTAGCTACAAGGA CUGAGUGG	1995	CCAUGCAG G GCCCGGCC	4774
610	GGGGGGC GGCTAGCTACAAGGA CGGGGCTG	1996	CAGGGGUG G GCCCCGGC	4775
616	CGGCTGGC GGCTAGCTACAAGGA GGGGGCTG	1997	UUCGAGUU G GCCAGAGG	4776
619	TAGGCTGT GGCTAGCTACAAGGA GGUGGGGG	1998	GGCGGGCC A AUAGCGUA	4777
621	ACGGAGGC GGCTAGCTACAAGGA GUGGUGGG	1999	CUGGCAAC A ACGCUAGU	4778
625	CCGCTAGC GGCTAGCTACAAGGA GUGUGGAG	2000	GGCACAAC G GCUAGCGG	4779
627	GGGCCGAC GGCTAGCTACAAGGA TAGCCTGT	2001	ACAGGCUG G GUGGACCC	4780
631	TTGGGGGT GGCTAGCTACAAGGA CCACTAGC	2002	GCUAGGGG A ACCCGGAA	4781
640	CCAGAGGC GGCTAGCTACAAGGA CTTCGGGG	2003	CCCGGAAG G GCGGCUGG	4782
643	TACAGAC GGCTAGCTACAAGGA GCCTTCGG	2004	CCGAAGGC G GUCUGGGA	4783
649	GTTCGGCAT GGCTAGCTACAAGGA CCCAGACG	2005	CGGCUGGG A AUGCGAAC	4784
651	CCGTTGGC GGCTAGCTACAAGGA AGCCTAGA	2006	UCUGGGAU G GCGAAGGG	4785
655	AGGCCGGT GGCTAGCTACAAGGA TCGCATCC	2007	GGAUGCGA A ACGGGCCU	4786
659	TTCCAGGC GGCTAGCGACAAGGA CCGTTGGC	2008	GGGAACGG G GUAUGGAA	4787
666	GCTATGGT GGCTAGCTACAAGGA CCCAGGCC	2009	GGCUUGGA A ACCAUAGC	4788
669	GAGCCTAT GGCTAGCTACAAGGA GGCCCGCG	2010	CUGGACCC A AUGGCGCC	4789
672	CCTTAGGC GGCTAGCTACAAGGA TATCGTTC	2011	GAACCAUA G GGGUCAGG	4790
674	TTCCTGAC GGCTAGCTACAAGGA GCTATGGT	2012	ACCAUAGC G GUCAGGGA	4791
683	ACCGGGGC GGCTAGCTACAAGGA CTTCCTGA	2013	UGACCCAG G GCCGGGGU	4792

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689	AGGGGGAC GGCTAGCTACAAGGA GCGGGCTT	2014	AGGGCGGG G GUCCCCCU	4793
699	TGGCAGGC GGCTAGCTACAAGGA ACAGGGGG	2015	CCCCCUGG G GCUGGCCA	4794
701	GGGTTGGC GGCTAGCTACAAGGA AGGGCCAG	2016	CUGGGCCU G GCCAGCCC	4795
707	CCGGGGGC GGCTAGCTACAAGGA TGCGGAGC	2017	GGCGGGCA G GCCCUGGG	4796
714	CCTGCCAC GGCTAGCTACAAGGA CCGGGGCT	2018	AGCCCUGG G GUGGGAGG	4797
716	CCCCTCCC GGCTAGCTACAAGGA ACCCGGGG	2019	CCCCGGGT G GAGAGGAG	4798
724	CCCGGGGC GGCTAGCTACAAGGA CCCCTGCC	2020	GCCAGAAG G GCGGGGGG	4799
726	GCCCGGGC GGCTAGCTACAAGGA GCCTCCTC	2021	CACAAAGC G GCGGGGCC	4800
732	GGCACTGC GGCTAGCTACAAGGA CCCCGGCG	2022	GUGGGGGC G GCAGGGCC	4801
735	GCCGGCAC GGCTAGCTACAAGGA TGGCCCCG	2023	CCGGGGCA G GUGCCAGC	4802
737	CGGCGGGC GGCTAGCTACAAGGA ACTGCCCC	2024	GGGGCAGG G GCCTAGCCC	4803
741	ACTTGGGC GGCTAGCTACAAGGA TGGCACTG	2025	CAGGGCCA G GCCGAAGU	4804
747	CGCCGGAC GGCTAGCTACAAGGA TTCGGCTG	2026	CAGCCGAA G GCTTGCCG	4805
751	GCAAGGGC GGCTAGCTACAAGGA AGACCGCG	2027	CCAAGGCC G GCGGUGGC	4806
754	TGGCCAAC GGCTAGCTACAAGGA GCAGAGCT	2028	AGCCTGGC G GUGGGCCA	4807
757	TCTTGGGC GGCTAGCTACAAGGA AACGGGAG	2029	CUGCGGCC G GCCCAAGA	4808
766	CGGCAGGC GGCTAGCTACAAGGA CTCTGGGG	2030	CCCAAGAG G GACCAGGC	4809
772	CGGCAGGC GGCTAGCTACAAGGA CTGGGGCT	2031	AGGCCAAG G GCGGGGCG	4810
774	AGGGCGAC GGCTAGCTACAAGGA GCCGGCC	2032	GGCCAGGC G GUGGGGCU	4811
777	GGCAGGGC GGCTAGCTACAAGGA CCCCCTTG	2033	CAGGCGGC G GGGGCGGC	4812
779	GGGGCAGC GGCTAGCTACAAGGA GGCGAGGC	2034	GGGCUGGC G GCUGAGCC	4813
782	TCAGGGGC GGCTAGCTACAAGGA AGAGCCGC	2035	CUGGGGCG G GCCCCUGA	4814
790	GGCGCGGC GGCTAGCTACAAGGA TCAGAAGC	2036	GCCCGGGA G GCGGGAGC	4815
796	CGGGCGGC GGCTAGCTACAAGGA CCGGAGC	2037	GAGCCGGA G GGGGAGGC	4816
800	AGGGCGGT GGCTAGCTACAAGGA CCGCTCCC	2038	CGGGAGGG A ACGCCGGU	4817
802	CAACGGGC GGCTAGCTACAAGGA GCCGGCTC	2039	GAGCGGAC G GCCCGGGG	4818
806	TGGCCAAC GGCTAGCTACAAGGA GGGCGTCC	2040	GGAGGCCC G GUUGGGCA	4819
811	ACCCCGGC GGCTAGCTACAAGGA CTAAGGGG	2041	GGGGGUGG G GCAGGGGU	4820
817	CCCAGGAC GGCTAGCTACAAGGA CCCTGGCC	2042	GGGCAGGG G GCCCGGGG	4821
824	GGGTGGGC GGCTAGCTACAAGGA CCAGGACC	2043	GGUCCUGG G GCCCACCC	4822
828	GCCCGGGT GGCTAGCTACAAGGA GGCCCCAG	2044	CUGGGCCC A ACCCGGGC	4823

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834	CGTCTTAC GGCTAGTTACTAAAGA ACGGGGTGG	2045	CCACCCGG G GTAGGACG	4824
839	CCAGCCGT GGCTAGTTACAAAGA CTTGGCCC	2046	CGGGCAGG A ACGGGTGG	4825
841	GTCCACGC GGCTAGTTACAAAGA GTCCTGCC	2047	GGCAGGAC G GTGTGGAC	4826
843	CGGTCCAC GGCTAGTTACAAAGA GGATGTTG	2048	CAGGACGG G GTGGACCG	4827
847	CAGTGCGGT GGCTAGTTACAAAGA CCAGGCGT	2049	ACGGTGGG A ACGGAGGG	4828
852	ACGGTCAC GGCTAGTTACAAAGA TGGGTGGA	2050	GGGACCGA G GTGACCGT	4829
855	ACCACGGT GGCTAGTTACAAAGA CAGTGGGT	2051	ACGGAGGG A ACTGTAGGT	4830
858	GAAGCGAC GGCTAGTTACAAAGA GGTCACTC	2052	GAGTGACC G GTGGTTTC	4831
861	ACAGAAAT GGCTAGTTACAAAGA CAGGGTTA	2053	GGACCGGG G GTTTCTGG	4832
867	CACCACGG GGCTAGTTACAAAGA AGAAAGCA	2054	GGGTTTTT G GTGTGGGG	4833
869	GACACCAC GGCTAGTTACAAAGA ACAGAAAT	2055	GTTTCTGG G GTGGGGTC	4834
872	GGTGACAC GGCTAGTTACAAAGA CACACAGA	2056	TCTGTGGG G GTGTCACC	4835
874	CAGTGGAC GGCTAGTTACAAAGA ACCACACA	2057	GGGTGGGU G GTCACCTG	4836
877	TGGCAGTG GGCTAGTTACAAAGA GACACCAC	2058	GGGGTGTC A ACCTGCCA	4837
881	GGGTGGAC GGCTAGTTACAAAGA ACGGTAAA	2059	TGTCACCT G GTCAGACC	4838
885	CGGGGGGT GGCTAGTTACAAAGA CTTGGCAGG	2060	GTGGCCAG A ACCGGCGG	4839
890	TGGGGCGG GGCTAGTTACAAAGA GGGTGCTGG	2061	CCAGGCCG G GTTGAAGA	4840
899	GAGGGCGG GGCTAGTTACAAATGA GTTTGGGG	2062	GCCAGGGA G GTTGAATG	4841
902	AAGGAGGT GGCTAGTTACAAAGA GGCTTCTT	2063	AAGGAGCC A ACCCCTGU	4842
915	GAGGGCAG GGCTAGTTACAAAGA CCTGCAAA	2064	GTTTGGAAG G GUGGGTTC	4843
917	CAGAGAGG GGCTAGTTACAAAGA ACTGTGCA	2065	GGGAGGGTC G GGGGTCCC	4844
919	CAGAGAGG GGCTAGTTACAAAGA GGACCCTC	2066	GAGGGTGC G GCTCTGTTG	4845
927	GGGGGCGG GGCTAGTTACAAAGA CAGGGAGC	2067	GCTCCTCTG G GCTGGGGT	4846
929	TGGGGGGT GGCTAGTTACAAAGA GGCAGAGA	2068	GCTGGGGA A ACGGGCCA	4847
931	ACTGGGGC GGCTAGTTACAAATGA GTGGCAGA	2069	GCTGGCAC G GGGGCACC	4848
933	GGAGTGGC GGCTAGTTACAAAGA GGGTGTCA	2070	GGGGCACG G GCCACCGC	4849
936	GTGGGAGT GGCTAGTTACAAAGA GGGGGGTG	2071	CACGGGCC A ACCCCCAC	4850
942	GGATGGGC GGCTAGTTACAAAGA GGGGGTGG	2072	CTACCCCC A ACCCATCC	4851
946	CCAGGGAT GGCTAGTTACAAAGA GGGTGGGA	2073	GTCCACCC A AUCCGGUGG	4852
950	CGGGCCAC GGCTAGTTACAAAGA GGATGGGT	2074	ACCCATCC G GGGGGTGG	4853
954	GTGGGCGC GGCTAGTTACAAAGA CCAGGGAT	2075	AUCCGGUGG G GCGGCCAG	4854

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957	CGGGTGGC GGCTAGCTACAACGA GGCCCACG	2075	CGGGGGC G GCCCAGCAC	4855
961	CGGGGTGC GGCTAGCTACAACGA TGGCGGCA	2077	GGCGGACA G GGACCAAG	4856
963	CGGGTGGT GGCTAGCTACAACGA GCTGGCGG	2078	CGGCCAGC A ACCAAGCGG	4857
966	GGGGGGC GGCTAGCTACAACGA GGTGCTGG	2079	CGGAGAAG A ACGGCGGC	4858
968	GGGCCGGC GGCTAGCTACAACGA GTGGTGCT	2080	AGCACGAC G GGGGCCC	4859
972	TGGGGGGC GGCTAGCTACAACGA GCGGTGGG	2081	CCAGGAGG G GTTTTCA	4860
979	ATGGGGG GGCTAGCTACAACGA GGGGGCG	2082	GGCCCCCC A AUCCACAU	4861
983	CGGGATGT GGCTAGCTACAACGA GGAGGGCG	2083	GCCCAGC A ACAAGCGG	4862
98?	GCGGGGAT GGCTAGCTACAACGA GTGGCGGG	2084	CGGCCAGC A ACCGCGGC	4863
989	CGGGCCGC GGCTAGCTACAACGA GGTGTGGA	2085	GCCACAGC G GGGGCAC	4864
991	GTGGGGGC GGCTAGCTACAACGA CGGGAGGT	2086	ACAGCGCG G GCCACAC	4865
994	GCGGGTGGT GGCTAGCTACAACGA GGTGGCGA	2087	CCGGGGGC A ACCAAGGC	4866
997	AGGGACGT GGCTAGCTACAACGA GCTAGCCG	2088	CGGCGAGG A ACGGCCCG	4867
999	GCAGGGAC GG TAGCTACAACGA GTGGTGGC	2089	GCCAGCAC C CTGGTGGG	4868
1008	AGGGGCGT GGCTAGCTACAACGA GGCAGGGA	2090	GCCTGGGG A ACACGCGT	4869
1010	CAAGGGGT GGCTAGCTACAACGA GTGCCAGG	2091	CTTGGGAC A AGGCCTTG	4870
1012	GCAGGGGT GGCTAGCTACAACGA GTGGCGCA	2092	GCGGGAC G GTGGGGC	4871
1017	CGGGGGAC GGCTAGCTACAACGA AAGGCGCG	2093	CAGGCCTT G GCGCCCCG	4872
1025	GGGTGGGC GGCTAGCTACAACGA GGGGGGAC	2094	GTGGCCCG G GCGTAGGC	4873
1027	CGGGGGAT GGCTAGCTACAACGA ACCAGGGG	2095	CGGCGGGU G GUACGCCG	4874
1029	CTCGGGGG GGCTAGCTACAACGA ACAGGGGA	2096	CGGGGCGU A ACGACGAG	4875
1031	GTCTGGGG GGCTAGCTACAACGA GTACACCG	2097	CGGGGTAC G GCGGAGAC	4876
1037	TGGTGGGT GGCTAGCTACAACGA CTGGGCGT	2098	ACGGCGAG A ACCAAGCA	4877
1042	GGAAGTGC GGCTAGCTACAACGA TGGGCTC	2099	GAGACGAA G GCACGGCC	4878
1044	GAGGGGGT GGCTAGCTACAACGA GTTTGGTC	2100	GACCAAGC A ACTTCCTC	4879
1053	TGGGGAGT GGCTAGCTACAACGA AGAGGAAG	2101	CGGCGGCG A ACTCCTCA	4880
1062	CTTGTGGG GGCTAGCTACAACGA CTGAGGAG	2102	CGCCGGAG G GCGGACAAG	4881
1065	CTGGTGGT GGCTAGCTACAACGA GGCGTGAG	2103	CGCAGGCG A ACAAGGAG	4882
1072	GCAGGTGC GGCTAGCTACAACGA CCTTTGTC	2104	GACAAGGA G GCAGGTGC	4883
1075	GGGGGAGG GGCTAGCTACAACGA TGCTCGTT	2105	AAGGACGA G GCGGCGGC	4884
1078	AGGGGGGG GGCTAGCTACAACGA AGCTGCGG	2106	GACGACCG G GTGGGCCU	4885

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1081	AGGAGGC GGCTAGCTACAAAGA CCGAGCCG	2107	CAGCUGCG G GCUGUCCU	4836
1093	AGCTCAGC GGCTAGCTACAACGA AGGAGAGA	2108	UCCUUCCU A ACUCAGCU	4837
1096	CAGGAGGC GGCTAGCTACAAGA TGAGTAGG	2109	CCUACUCA G GCUCUCUG	4838
1105	GGCTGAGC GGCTAGCTACAACGA CTCAGAGA	2110	UCGCUGAG G GCUCAGCC	4839
1113	AGTCAGGC GGCTAGCTACAAAGA TGGGCCTC	2111	GAGGCCCA G GCCUGACU	4890
1118	GCGGCAGC GGCTAGCTACAAGA CAGGCTGG	2112	UCAGCCUG A ACUGGCGC	4891
1122	CCGAGCGG GGCTAGCTACAACGA CAGTCAGG	2113	UCUGACUG G GGGCUCGG	4892
1124	CTCCGAGC GGCTAGCTACAACGA AGTAGTCA	2114	UGACUGAG G GCUGGGAG	4893
1132	CCACGAGC GGCTAGCTACAACGA CTCCGAGC	2115	GUUCGGAG G GCUCGUGG	4894
1135	GTCUCGAG GGCTAGCTACAAAGA GTCTCCA	2116	AGAGCCUG G GUGGAGAC	4895
1142	AAGATGGT GGCTAGCTACAACGA CTCCAGAA	2117	UUUCGGAG A ACUUCCUU	4896
1145	AGAAAGAT GGCTAGCTACAACGA GTTTCCA	2118	UGGAGACA A AUCUUCCU	4897
1155	CCTCGAAC GGCTAGCTACAAAGA CCAGAAAG	2119	CUGGUCUG G GGCGCAGG	4898
1162	TCCACGGC GGCTAGCTACAACGA CTCGGAAC	2120	GGUUCAG G GCCUGGA	4899
1169	CCTGGAAC GGCTAGCTACAACGA CTCAGGAU	2121	GGGCCUGG A AUGUAGG	4900
1171	TCCTGGCC GGCTAGCTACAACGA ATCTGGAG	2122	CCCUGGAU G GCCAGGGA	4901
1173	CGGGGACC GGCTAGCTACAACGA CCCUGGCA	2123	UGGCAGGG A ACUGGCCG	4902
1185	CAGGGTGG GGCTAGCTACAAAGA CCGCAGCC	2124	GGUUCGGG A GCAGUUG	4903
1189	GGGGCAAC GGCTAGCTACAACGA CTCCGGGG	2125	CCCUGGAG G GUUGUCCC	4904
1192	GGGGAGGC GGCTAGCTACAACGA AAUTGGGG	2126	CGUAGGGU G GCUUGGCC	4905
1197	GGGGAGGC GGCTAGCTACAACGA AGGGGGGG	2127	GUGGGGUA G GCCUGGCG	4906
1201	GCTGGGGC GGCTAGCTACAACGA AGGGGGGG	2128	CCGGGGCU G GCCGGGAA	4907
120?	AGTAGGGC GGCTAGCTACAAAGA TGGGGGAG	2129	CUGGGGCA G GCCGGAGG	4908
1209	CCAGTAGC GGCTAGCTACAACGA GCGGGGGC	2130	GCCUGGAG G GCUACCGG	4909
1212	TTGCCAGT GGCTAGCTACAACGA AGGGCTGG	2131	CCAGGGCU A ACUGGCAA	4910
1216	GCATTGGC GGCTAGCTACAACGA CAGTAGGG	2132	CCUAGUCG A GCAAAUGC	4911
1220	GGCGGGAT GGCTAGCTACAACGA TTGCCAGT	2133	AGUGGCAA A AUGGGCC	4912
1222	GGGGCGGC GGCTAGCTACAACGA ATTGGCCA	2134	UGGCAAAU G GCGGCCCC	4913
1225	ACAGGGGC GGCTAGCTACAACGA GGCAUUG	2135	CAGAUGCG G GCCGCUGU	4914
1231	CCAGAAAC GGCTAGCTACAACGA AGGGGCGG	2136	GGGGCGU G GUUUCUGG	4915
1240	CAAGCAGC GGCTAGCTACAACGA TCCAGAAA	2137	UUUCUGGA G GCUGCUUG	4916

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#	Seq A	Seq B	#	Seq C	Seq D	#
1243	CCGGCAGC	GGCTAGCTACAAGGA AGTTCCAG	2138	CGGGACTT G GCTGGGGA	4917
1251	CGGGGGGC	GGCTAGCTACAAGGA TGCTAAGC	2139	GGTTGGGA A AGTAGGGG	4918
1254	CTGGGGGT	GGCTAGCTACAAGGA GGTTCCCA	2140	TCGGGACC A ACGCGCAG	4919
1256	CACGTGGC	GGCTAGCTACAAGGA GTGGTTGC	2141	GGAGTAG G GGGGAGGC	4920
1258	GGCTCTGC	GGCTAGCTACAAGGA GGTGGTTT	2142	AACCACGC G GCAGGGGC	4921
1461	AGGGGCAC	GGCTAGCTACAAGGA TGGAGGGG	2143	GAGGGCGA G GTGGCCCU	4922
1262	GGAGGGGC	GGCTAGCTACAAGGA AGGGCGCG	2144	GGGGCAGG G GGCCCUAC	4923
1269	CACGGGGT	GGCTAGCTACAAGGA AGGGGCAC	2145	GUGGGGGU A ACGGGGUG	4924
1274	AGGAGCAC	GGCTAGCTACAAGGA CCGGCAGG	2146	CCCAGGGG G GUGCUCCU	4925
1276	TGAGGAGC	GGCTAGCTACAAGGA ACCCGGTA	2147	GAGGGGU G GCGGGGCA	4926
1286	CAGTCGGC	GGCTAGCTACAAGGA CTTGAGGA	2148	UCCUGAAG A ACGGACUG	4927
1288	GGCAGTGC	GGCTAGCTACAAGGA GTCTTGAG	2149	CUCAGGAU G GCAUUGCC	4928
1290	CGGGCAGC	GGCTAGCTACAAGGA GGGUGTTG	2150	CAAGACGU A AUGGGGGG	4929
1294	CAGGGGGC	GGCTAGCTACAAGGA AGTGGGTT	2151	GAGGCACU G GGGGGTUG	4930
1297	CTGGGCAGC	GGCTAGCTACAAGGA GGGGAGUG	2152	CACUGGCU G GUUGGGAG	4931
1300	CAGTGGGC	GGCTAGCTACAAGGA AGGGGGCA	2153	UGGGUGGU G GGGGAGGUG	4932
1304	ACCGGCAGC	GGCTAGCTACAAGGA TGGUAGGG	2154	GGGGGGGA G GCGUGGGU	4933
1307	GTGACGGC	GGCTAGCTACAAGGA AGTGGGGU	2155	GGGGAGGU G GGGGGCAC	4934
1310	GGGGTGAC	GGCTAGCTACAAGGA CGCAGCUC	2156	GAGUUGGG G GUGAGGGC	4935
1313	GCTGGGGT	GGCTAGCTACAAGGA GACGGCAG	2157	UUGGGGGC A ACCCCAGC	4936
1319	CCGGCTGC	GGCTAGCTACAAGGA TGGGGTGA	2158	UGAGGGCA G GCAGGGGG	4937
1322	ACAGGCAC	GGCTAGCTACAAGGA TGCTGGGG	2159	GGGGAGGA G GGGGGGGU	4938
1326	ACAGACAC	GGCTAGCTACAAGGA CGGCTGCT	2160	AGTAGGGG G GUGGGGGU	4939
1328	GCAGCAGC	GGCTAGCTACAAGGA ACCCCCGG	2161	GAGGGAGU G GUUUGGGC	4940
1332	CCGGGGAC	GGCTAGCTACAAGGA AGGGCACG	2162	CGGGGGTU G GGGCCCGG	4941
1334	TCCGGGGC	GGCTAGCTACAAGGA ACAGGGNC	2163	GGGGGUGU G GCGGGGGA	4942
1345	CCTGGGGT	GGCTAGCTACAAGGA TTGTGGGG	2164	CGGGAGGA G GGGCCAGG	4943
1353	CACAGAGG	GGCTAGCTACAAGGA GCTGGGGC	2165	GCCCCAGG G GCUCUGUG	4944
1358	GCCCGCAC	GGCTAGCTACAAGGA AGAGGGGT	2166	AGGGUCUU G GUGGCGGC	4945
1361	GGGGGGGC	GGCTAGCTACAAGGA CACAGAGC	2167	GCCCGGUG G GGGGCCCC	4946
1364	TGGGGGGC	GGCTAGCTACAAGGA CGCACAGG	2168	CUGGGGGG G GCCCCGA	4947

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1380	GUGUGUGU GGCTAGCTACAAUGA CUUCUCUG	2169	GGAGGAGG A ACACAGAC	4948
1382	GGGUGUAU GGCTAGCTACAAUGA GUCCUCUU	2170	AGGAGGAC A ACACACCC	4949
1386	AGGGUGUU GGCTAGCTACAAUGA CUCUGUCU	2171	GAACACAG A ACCCCCGU	4950
1392	CAGGCGAU GGCTAGCTACAAUGA GGGGUGUU	2172	AGACCCCC G GUGGCCUG	4951
1395	GUGCAGGU GGCTAGCTACAAUGA GGCGGUGG	2173	GCCCGUUC G GCCUGGUG	4952
1400	AGUGCAAU GGCTAGCTACAAUGA UAAUUGAU	2174	GUGGCUUG G GUGCAGCU	4953
1402	GCAGCUGC GGCTAGCTACAAUGA ACCAGCUG	2175	CGCUGGUU G GCAGCUGC	4954
1405	GGAGCAGG GGCTAGCTACAAUGA CGCACCAG	2176	CUGGUGCA G GCUGCUCC	4955
1408	GGGGCAGU GGCTAGCTACAAUGA AGCUGCUG	2177	GUCCAGCU G GCUCCCCC	4956
1413	GUGGUGGU GGCTAGCTACAAUGA UGAGUAGC	2178	GCUCCUCC G GUUAGCAC	4957
1417	UGCUGGUG GGCTAGCTACAAUGA UGGGGGAG	2179	CUCCUGCA G GCACACGA	4958
1419	GGGGUGGU GGCTAGCTACAAUGA GUGCACCA	2180	CGGCCAGC A ACAGCAGC	4959
1422	GGGCGUGU GGCTAGCTACAAUGA UGAGCUGG	2181	CCAGCACA G ACAGCCCC	4960
1425	GUGGGGGC UGCTAGCTACAAUGA UGUUGGGU	2182	GCACAGCA G CCCCUGG	4961
1432	ACACUGGC GGCTAGCTACAAUGA GAGGGCU	2183	AGCCCUGG G GCAGGUAU	4962
1436	CGGUAGAU GGCTAGCTACAAUGA GGGCUGGG	2184	GGUGGCAG G GUGUACGG	4963
1438	AGGGGUAG GGCTAGCTACAAUGA ACUGGCCA	2185	GGGGUAGU G GUACGGCU	4964
1440	GAAGGGGU GGCTAGCTACAAUGA AGAACUGG	2186	GCAGGUGU A ACGGCUUC	4965
1443	CAGGAAGG GGCTAGCTAGAAUGA CUGUGACC	2187	GGGGUAGG G GUUACGUG	4966
1446	GUGGGAAU GGCTAGCTACAAUGA GAAUGGGU	2188	ACCGGUUC G GGACGGGC	4967
1450	AGGGGGGC GGCTAGCTACAAUGA ACAGGAGG	2189	GGCUGUGU G GGGGGCCU	4968
1454	AGGGCAGG GGCTAGCTACAAUGA CGGCAGGA	2190	GUGGGUGG G GGCUGGUU	4969
1458	GGGGUAGGC GGCTAGCTACAAUGA AGGGGUGC	2191	GGGGGUCU G GCCUGCGC	4970
1462	GGGGGUGC GGCTAGCTACAAUGA AGGGUGGC	2192	GGCUUGGUU G GGGUGGGC	4971
1464	GAGGGUGU GGCTAGCTACAAUGA GCGGGUAG	2193	CUGGCUGG G GUCACCUG	4972
1468	GCAGCAGU GGCTAGCTACAAUGA CGGUGGAG	2194	CUGGGCUG G GUUGGUGC	4973
1472	GGGGGCAG GGCTAGCTACAAUGA AGCUGAGG	2195	GCCGGGUG G GUGCUCCC	4974
1474	CUGGGAGU GGCTAGCTACAAUGA CUGGGCUC	2196	GGGUGGGU G GCCCCCAG	4975
1482	GGGAGGGC GGCTAGCTACAAUGA ACGGGUGG	2197	GGGGUAGU G GCCCUUGG	4976
1491	GCUGGAGC GGCTAGCTACAAUGA GCCUGGGG	2198	GCUCUGGG G GCGCAGG	4977
1498	GGUGUGUGC GGCTAGCTACAAUGA CUGGAGGC	2199	GGCUGCAG G GCACAACG	4978

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1500	TCCTGTGGT GGCTAGCTACAACGA GCCTGGAA	2200	CUCCAGGC A ACAACGAA	4979
1503	GCGTTCGT GGCTAGCTACAACGA TGTGCCTG	2201	CAGGCACA A ACGAACGC	4980
1507	AGGGCGT GGCTAGCTACAACGA TCGTTGTG	2202	CACAACGA A ACGCCGCU	4981
1509	GAAGGGC GGCTAGCTA AACGA GTTCGTTG	2203	CAACGAAC G GCCGCUUC	4982
1512	GAGAAGG GGCTAGCTACAACGA GGGTTCG	2204	CGACGCC G GCUUCCCC	4983
1524	CTTGGTGT GGCTAGCTACAACGA AGTTCCG	2205	CGUCAGGA A ACACCAAG	4984
1526	TTCTTGGT GGCTAGCTACAACGA GTCCTGA	2206	GCAGGAAU A ACCAAGAA	4985
1534	AGATGAAG GGCTAGCTACAACGA TCGTTGGT	2207	ACCAAGAA G GUCCAUCU	4986
1538	AGGAGAT GGCTAGCTACAACGA GAACCCC	2208	ACAAUUC A AUCUCCCC	4987
1552	TGGGATGG GGCTAGCTACAACGA TCCCCAG	2209	CUGGAAA G GCAUGCCA	4988
1554	CTTGGGAT GGCTAGCTACAACGA ACTCCCC	2210	CGGGAAGA A AUGCCAAG	4989
1556	AGCTTGGG GGCTAGCTACAACGA ATGCTTCC	2211	GUAAGCAU G GCCAAGCU	4990
1561	GCGAGGAG GGCTAGCTACAACGA TTGCATG	2212	CAUGCAA G GUUCUCGC	4991
1567	CCTGCAGC GGCTAGCTACAACGA GAGAGCCT	2213	AGCUUCC G GCUUGCGG	4992
1570	GCTCCTGC GGCTAGCTACAACGA AGGGAGAG	2214	CCUGCGCU G GCAGGAGC	4993
1576	ACGTCAGC GGCTAGCTACAACGA TCCTGCAG	2215	CUGGAGGA G GUUGACGU	4994
1580	TTCCACGT GGCTAGCTACAACGA CAGCTCCT	2216	AGAAGUUG A ACGUGGAA	4995
1582	TCTTCCAC GGCTAGCTACAACGA CGTACCGT	2217	GAGCUGAC G GUGGAAGA	4996
1585	AGCTTCCAC GGCTAGCTACAACGA CTTCAAGG	2218	CGGGAAG A AUGAGCGU	4997
1593	CCGCAGC GGCTAGCTACAACGA TCAGCTT	2219	CAAGAUGA G GCGGUGGA	4998
1595	TGCCAGC GGCTAGCTACAACGA GCTCAGT	2220	AGAUGAGC G GUGGUGGA	4999
1597	AGTCCGC GGCTAGCTACAACGA AGGCTCAT	2221	AGGAGUGG G GUGGGACC	5000
1602	AGCTCAGT GGCTAGCTACAACGA GGGCAGG	2222	CGUGGUGA A ACUGCGCU	5001
1605	GCAAGCGG GGCTAGCTACAACGA AGGTTTGG	2223	GAGGAGU G GCGGUUGG	5002
1607	AGCCGAGC GGCTAGCTACAACGA GCAGTCCG	2224	GCGAGUGC G GUUGGCU	5003
1612	TGCTCCAG GGCTAGCTACAACGA AGGCGAG	2225	UGGCUGG G GUGGGCA	5004
1615	TCCTGGGC GGCTAGCTACAACGA AGGCGAAT	2226	GUUGGGU G GCGCAGGA	5005
1617	GCCTGGGC GGCTAGCTACAACGA GGAGGCAA	2227	UUGGCUGGC G GCCAGGAGC	5006
1623	CCCTGGGC GGCTAGCTACAACGA GCCTGGGC	2228	GAGGAGGA G GUCCAGGG	5007
1621	CAGCCAGC GGCTAGCTA AACGA CCTTGG	2229	GCGCAGGG G GUUCGCCG	5008
1625	AACACAGC GGCTAGCTACAACGA CAACCCCT	2230	AGGGAGGG G GUUGUGUU	5009

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1636	CGGAAAC GGCTAGCTACAAGGA AGCGAGT	2231	GGGGGGCTT G GGGGCCCG	5010
1642	GGGGGAAC GGCTAGCTACAAGGA G AGAGAAA	2232	UUGAGUGU G GUUGGGGC	5011
1645	GCGGGGC GGCTAGCTACAAGGA GGGAAAC	2233	GUGUGCGG G GGAGAGA	5012
1649	TGCTCTGC GGCTAGTACAAGGA GGGGGAA	2234	UUGGGGTT G GTAGAGCA	5013
1654	GAGGGGGT GGCTAGCTACAAGGA GGGGGGA	2235	GCGGCAGA G GCACCGGC	5014
1656	CAGGGGGT GGCTAGCTACAAGA G GTTGGGG	2236	CGCAGAGC A AUCGGCUG	5015
1659	ACGGAAAC GGCTAGCTACAAGGA GGTGCTCT	2237	AGAGCAGC G GUCUGCGU	5016
1663	GCTTACGT GGCTAGCTACAAGGA AGAGGGGG	2238	CACCGGTT G GCGGAGGC	5017
1666	GCTGCGAC GGCTAGCTTACAAGGA GGAGACGG	2239	GGGGCGGC G GGGAGGAG	5018
1673	GCCAGGAT GGCTAGCTACAAGGA CTTTCAC	2240	GUGAGGAG A AUCCGGGC	5019
1679	AGCTGGC GGCTAGCTACAAGGA CAGGATCT	2241	AGAGCTTG G GCCAAGUU	5020
1684	GCGGGGAC GGCTAGCTACAAGGA TTGGGGGA	2242	CUGGCCAA G GUGCCUGC	5021
1690	GGAGGTGC GGCTAGCTA AATGA AGGAACTT	2243	AAGUUCCCT G GCAGUGGC	5022
1692	CAGGGAGT GGCTAGCTACAAGGA GGAGGAGC	2244	GUUGCTTG A ACUGGGUG	5023
1695	GGAGGAGC GGCTAGCTACAAGGA CAGGGGAG	2245	CUGCACGG G GUUGAUGA	5024
1709	ACAGTGAC GGCTAGCTACAAGGA CAGGGAGT	2246	ACUGGCUG A AUGAGUGG	5025
1704	GTACAGAC GGCTAGCTACAAGGA TCAGTGAC	2247	GCGGAUGA G GCGGCGAC	5026
1706	ACGTACAC GGCTAGCTACAAGGA ACTCATCA	2248	UGAUGAGU G GTGUACGU	5027
1709	CGACGTAC GGCTAGCTA AATGA ACACTCAC	2249	AGGAGTGC G GUACGUCG	5028
1710	GACGAGGT GGCTAGCTACAAGGA ACACACTC	2250	GAGUGUGC A ACGUCGUC	5029
1712	TCGACGAC GGCTAGCTA GCTACAAGGA GTACACAC	2251	GUGGUGAC G GUUGUCGA	5030
1715	AGTTGGAC GGCTAGCTACAAGGA GACGGTACA	2252	UGUACGUC G GUGGAGCU	5031
1720	TCAGCAGC GGCTAGCTACAAGGA ACGACGAC	2253	GUCGUCGA G GCUGGCUCA	5032
1723	ACGTGGAC GGCTAGCTACAAGGA AGCTCGAC	2254	GUCGACGU G GUCAGGUU	5033
1729	ACAAGGAC GGCTAGCTACAAGGA CTGAGCAG	2255	CUGCUCAG G GUCUUUCU	5034
1740	CGTGACAT GGCTAGCTACAAGGA AAAAGAAA	2256	UUUCUUUC A AUGCACG	5035
1742	TACGTGAC GGCTAGCTACAAGGA ATAAAAA	2257	UCUUUUAU G GUCACGGA	5036
1745	GTCTCGGT GGCTAGCTACAAGGA GACATAAA	2258	UUUAUGUC A ACGGAGAC	5037
1751	AACCTGGT GGCTAGCTACAAGGA CTCCGTGA	2259	UCACGGAG A ACCACGUU	5038
1754	TGAAAGGT GGCTAGCTACAAGGA GGTGTGNG	2260	CGGAGACC A ACGGGCCA	5039
1756	TTTGAAAC GGCTAGCTACAAGGA GTGGTGTC	2261	GAGACCAC G GUUCAAA	5040

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1767	GAGUCUGT GGCTAGCTA-AAUGA UUUUUGA	2262	UCAAAAGA A ACAGGCUC	5041
1771	AAAAGAGC GGCTAGCTACAAUGA CUGUUCUU	2263	AAGAACAG G GCUCCUUU	5042
1782	CUUCUGT GGCTAGCTACAAUGA AGAAAAAG	2264	CUUUUUCU A ACGGAAG	5043
1791	CCGGAGAG GGCTAGCTACAAUGA UCUUCGGG	2265	CCGGAAGA G GUGUCUGG	5044
1793	CUCCAGAG GGCTAGCTACAAUGA ACUCUUCC	2266	GGAAGAGU G GUCUGGAG	5045
1802	CAAGUGG GGCTAGCTACAAUGA UCCAAGCA	2267	UCUCUGGA G GCAAGUUG	5046
1804	TTUGCAAG GGCTAGCTACAAUGA UUGCUACA	2268	UGGAGCAA G GUUGCAAA	5047
1807	UGUUUGG GGCTAGCTACAAUGA AACUUGUU	2269	AGCAAGUG G GUUAAAGA	5048
1812	UCAAGUGC GGCTAGCTACAAUGA UUUGCAAC	2270	GUUGCAAA G GCAUUGGA	5049
1821	ACCCGAAGC GGCTAGCTACAAUGA UCUUUGGA	2271	UCCAAGC A AUGGGCAU	5050
1820	UGUCUGAU GGCTAGCTACAAUGA UCAUUGGA	2272	UCAUUGGA A AUCAGCA	5051
1825	AGGCUGT GGCTAGCTACAAUGA CUGAUUCC	2273	GGAAUCAG A ACAGCACU	5052
1833	UCAAGUGC GGCTAGCTA-AAUGA UUUUGAU	2274	AUCAGACA G GCACUUGA	5053
1830	CUCCAAGC GGCTAGCTACAAUGA CUUGUCUG	2275	CAGCACU A ACUUGGAG	5054
1841	AGCUGCAC GGCTAGCTACAAUGA CUUUUCA	2276	GGAAGACG G GUGCAGCU	5055
1843	GCAGCUGC GGCTAGCTACAAUGA AGGCUU	2277	AAGACGG G GUACUGG	5056
1845	CCGGUAGC GGCTAGCTACAAUGA UGCAUUU	2278	AUGCUGCA G GUUACUGG	5057
1849	GCUUGGC GGCTAGCTACAAUGA ACUUGUAU	2279	GUGCUAGCU G GCGGGAGC	5058
1855	CCGAGAGC GGCTAGCACAAUGA UCCGCAG	2280	CCGGGAGA G GUGUCUGG	5059
1856	CUUUGAU GGCTAGCTACAAUGA ACUUUGUG	2281	CCGGAGCU G GUCCAAC	5060
1865	ACUUCUGC GGCTAGCTACAAUGA UUUCGACA	2282	UCUUAGAA G GCAGGAGU	5061
1871	UCUUCUGC GGCTAGCTACAAUGA CUCUGCUU	2283	AAGCAGAG G GCAGGCA	5062
1876	GAUCUUGC GGCTAGCTACAAUGA CUCAUCUC	2284	GAGGUCAG G GCAGCAUC	5063
1879	CCGGAUGC GGCTAGCTACAAUGA UGGCUGAC	2285	GUCAGGCA G GCAUCGGG	5064
1881	UCUUGAU GGCTAGCTACAAUGA CUUGUCUG	2286	CAGGCAU A AUCGGGAA	5065
1882	GGCCGGC GGCTAGCTACAAUGA UCCCGAC	2287	AUCGGAA G GCAGGCC	5066
1894	CCGGGGGC GGCTAGCTACAAUGA CUCCUUC	2288	CAAGCCAG G GCCCGCCC	5067
1893	ABCAGGGC GGCTAGCTACAAUGA GGGUUAG	2289	CCAGGCC G GCCCGGCU	5068
1903	AGCUCAGU GGCTAGCTACAAUGA AGGGGGGG	2290	CCGGCCUU G GCUGACGU	5069
1907	CUCCAAGT GGCTAGCTACAAUGA CAGUACCC	2291	CCGCUGCUG A ACGUCCAG	5070
1909	CUCCGGAC GGCTAGCTACAAUGA GUCAGCAG	2292	CUGCUGAC G GUCCAGAC	5071

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1915	AGGGAAGC GGCTAGCTACAACGGA CTGGAGT	2293	AGGGCAG A ACUACGCU	5072
1920	GATGAAGC GGCTAGCTACAACGGA GGAGTCTG	2294	CAGACUCC G GCUCACAU	5073
1925	TTGGGGAT GGCTAGCTACAACGGA GAAGTGGA	2295	UCUGCUUC A AUCCCCAA	5074
1933	CGTGAGC GGCTAGCTACAACGGA TTGGTGAT	2296	AUCUCGAA G GCUGGAAGC	5075
1935	CAGGCGGT GGCTAGCTACAACGGA CAGGCTTG	2297	CAAGCCUG A ACGGGCUG	5076
1942	GCGCAGC GGCTAGCTACAACGGA CGGTGAGG	2298	GCTGACGG G GCUGGGGU	5077
1945	TCGGCCGC GGCTAGCTACAACGGA AGGTGGTC	2299	GAGGAGCU G GCGGACGA	5078
1948	CAATCGGC GGCTAGCTACAACGGA GTGAGCCC	2300	GGGTGCAG G GTCGAUUG	5079
1952	TTCAGAAT GGCTAGCTACAACGGA CTGGGGCA	2301	UGGCGCCG A AUGGUGAA	5080
1955	ACGTTCAC GGCTAGCTACAACGGA AAGGCGCC	2302	GCCGAUG G GGGAACAU	5081
1959	GTCCATGT GGCTAGCTACAACGGA TGGCAATC	2303	GAUUGUGA A ACAUGGAC	5082
1961	TAGTCCAT GGCTAGCTACAACGGA GTTCACAA	2304	UUGUGAAC A AUGGACUA	5083
1965	GAGGTAGT GGCTAGCTACAACGGA CCATGTTC	2305	GAACAUGG A ACUACGGC	5084
1968	CACGAGGT GGCTAGCTACAACGGA AGTCCATG	2306	CAUGGACU A ACGGCGUG	5085
1970	CACACGAC GGCTAGCTACAACGGA GTAGTCCA	2307	UGGACUAC G GCGUGGGG	5086
1973	GGTCCACAC GGCTAGCTACAACGGA GAGGTAGT	2308	ACUACGGC G CGUGGGAGC	5087
1979	GTTCCTGGC GGCTAGCTACAACGGA TCCACGGA	2309	GUGGGGGA G GCGAGGAU	5088
1985	CGGAAGGT GGCTAGCTACAACGGA TTTGGTTC	2310	GAGGCAGA A ACGUGGUG	5089
1987	TCGGGAAG GGCTAGCTACAACGGA GTTCTGGC	2311	GCGAGGAAC G GUUCUGCA	5090
1992	TTTCTGGC GGCTAGCTACAACGGA GGAAGGT	2312	AACGGUUC G CUGGGGA	5091
2006	CGGTGGGC GGCTAGCTACAACGGA CCTCTTTT	2313	AAAAGGAGG G GCGGACGG	5092
2011	TGAGAGGC GGCTAGCTACAACGGA TGGGCCCT	2314	AGGGCGGA G GCGUCUCA	5093
2015	GGCGAGAC GGCTAGCTACAACGGA GCTGGGAC	2315	GGUCGGAGC G GUCUCACC	5094
2018	CTCGAGGT GGCTAGCTACAACGGA GAGAGGGT	2316	AGGGUCUC A ACCUCGGAG	5095
2027	GGCTTCAC GGCTAGCTACAACGGA CTTGGAAG	2317	CUUCGGAGG G GCGAAGGC	5096
2033	AACAGTGC GGCTAGCTACAACGGA CTTGAGGC	2318	GGGUGAAG G GCACUGUU	5097
2035	TGAACAGT GGCTAGCTACAACGGA GCTTGAAC	2319	GGGAAGGC A ACUGUUCA	5098
2039	GCGTGAAC GGCTAGCTACAACGGA AGTGCCTT	2320	AAGGCGACU G GUUCAGCG	5099
2043	GAGCAGGC GGCTAGCTACAACGGA TGAACAGT	2321	ACUGUUCA G GCGUGCUC	5100
2045	TCGAGCAC GGCTAGCTACAACGGA GCTGAACA	2322	UUCCAAGC G GCGCUCAA	5101
2047	AGTTGAGC GGCTAGCTACAACGGA ACGCTGAA	2323	UUCAGCGGU G GCUCAACU	5102

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2052	CTCGTAGT GGCTAGCTACAAGGA TGAGCAGG	2324	CGGCCTGA A ACTACGAG	5103
2055	GGGCTGGT GGCTAGCTACAAGGA AGTTGAGC	2325	GCGCAACTT A ACGAGCGG	5104
2059	GGGCCGGG GGCTAGCTACAAGGA TCGTAGTT	2326	AACTACGA G GGAGGAGC	5105
2063	CGGGCGGC GGCTAGCTACAAGGA CGGCTCGT	2327	ACGAAGGG G GGAGGGCG	5106
2065	GGGGCGGC GGCTAGCTACAAGGA GTCCCTC	2328	GAGCGGGC G GGGGCCCC	5107
2068	CGGGGCGG GGCTAGCTACAAGGA GGTGGGGG	2329	GGGGGCGG G GCGCCCCG	5108
2070	GCCGGGGC GGCTAGCTACAAGGA GGGGGAC	2330	GGGCGGGT G GGGCGGGC	5109
2075	CAGGGGGC GGCTAGCTACAAGGA CGGTGCGG	2331	GAGGGGGG G GCGCCTGG	5110
2085	AGAAGGGC GGCTAGCTACAAGGA CCAGGAGG	2332	CGGCTTGA G GCGCTTCT	5111
2087	ACAGGGGG GGCTAGCTACAAGGA GGCCAGGA	2333	TCCTGGGC G GCCTCCGC	5112
2092	CGCAAGAC GGCTAGCTACAAGGA AGGAGCGC	2334	GGGCCCCTC G GUGCUGGG	5113
2095	GGGCCAGG GGCTAGCTACAAGGA ACAGGAGC	2335	GCCGCTGGT G GCCGGGCC	5114
2100	CGGCGAGG GGCTAGCTACAAGGA CTAGCAGA	2336	CGGGCCGGG G GCCCGGAC	5115
2106	GATATCCG GGCTAGCTACAAGGA CTAGGCCC	2337	GGGCCTGG A ACGAGATCC	5116
2109	GTGGATAT GGCTAGCTACAAGGA CCGTTGAG	2338	CCTGGACG A ACACCCAC	5117
2111	CGGTGGAT GGCTAGCTACAAGGA ACCGTCCA	2339	GGGAAGAU A AGCCACAG	5118
2115	GGGCCGGT GGCTAGCTACAAGGA GGATATGG	2340	CGAUAUCC A ACAGGGCC	5119
2120	CGGCAGGC GGCTAGCTACAAGGA CCTGTGGA	2341	GGCACAGG G GCCCGGGG	5120
2121	ACGTGGGC GGCTAGCTACAAGGA CAGGCCCT	2342	GGGGCCGG G GCGCACCU	5121
2127	GAAGGTGC GGCTAGCTACAAGGA GCCAGGCC	2343	GGCTGGGC G GCACCCTC	5122
2129	ACGAAGGC GGCTAGCTACAAGGA GGGCCAGG	2344	CCTGGCGC A ACTUCGCC	5123
2135	CGCAGAG GGCTAGCTACAAGGA CAGCCTCC	2345	GCACCTTC G GUGCTGGCG	5124
2137	CAGGGAGC GGCTAGCTACAAGGA ACGAAGGC	2346	ACCTCCGG G GCCGCGUG	5125
2140	GCACAGCG GGCTAGCTACAAGGA AGCAGGAA	2347	TTCCGUGCTG G GCCGUGGC	5126
2142	CGGGCAGC GGCTAGCTACAAGGA GCAGCAGC	2348	CAGGCCGGC G GGGCGGGGG	5127
2144	GGGGCCGC GGCTAGCTACAAGGA AGGCAGCA	2349	GGCGGGGU G GGGCCGGGC	5128
2146	GGGGCCGG GGCTAGCTACAAGGA ACAGGCAG	2350	CGGGGUGU G GCCCAGGA	5129
2150	TCCGGGGC GGCTAGCTACAAGGA CCGCACAC	2351	GGGUGUGG G GCCCAGGA	5130
2157	CGGGCGGC GGCTAGCTACAAGGA CCTGGGCC	2352	GGGCCAGG A ACCCGCGG	5131
2161	CAGGGGGC GGCTAGCTACAAGGA GGGCTCGG	2353	CAGGGCC G GCGGGCUG	5132
2164	GCTCAGGC GGCTAGCTACAAGGA GGGGGGC	2354	GGCCCGGC G GGCTGAGC	5133

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2170	AGTACAGC GGCTAGTTACAAGGA GCAGGCGG	2355	CCGCCGGA G GCTGGUACU	5134
2173	CAAAGTAC GGCTAGTTACAAGGA AGCTCAGG	2356	CCUGAGCU G GUACUUUG	5135
2175	GACAAAGT GGCTAGTTACAAGGA ACAGCCA	2357	UGAGCUGU A AGUUCGUC	5136
2180	ACCTTGAC GGCTAGTTACAAGGA AAAGTACA	2358	UUGUCAAG G GUCAAGGU	5137
2186	ACAGCCAG GGCTAGTTACAAGGA CTTGACAA	2359	UUGUCAAG G GUGGAUGU	5138
2190	CGTCACAT GGCTAGTTACAAGGA GCAGCTTG	2360	CAAGGUGG A AUGUGACG	5139
2192	CGTCACAC GGCTAGTTACAAGGA ATGAGCAT	2361	AGGGGGAU G GUCAUCGG	5140
2195	GGGCGCGT GGCTAGTTACAAGGA CACATCCA	2362	UGGAUGUG A ACGGGCGC	5141
2199	GTAGGCGG GGCTAGTTACAAGGA CGCGTACA	2363	UGUGACGG G GCGCGGAC	5142
2201	TCCTAGGC GGCTAGTTACAATGA GCGGGTCA	2364	UGAGGGAC G GCGGAUGA	5143
2204	TGTCCGAC GGCTAGTTACAAGGA GCGGGGGT	2365	ACGGGGAC G GUAUGACA	5144
2205	CGTCTCGT GGCTAGTTACAAGGA ACGGGGG	2366	GGGGGGGU A ACGACACC	5145
2208	GATGTGGT GGCTAGTTACAAGGA GCTACGCG	2367	CGGGUAAG A ACACCAUC	5146
2210	GGGATGGT GGCTAGTTACAAGGA GCGGTAGG	2368	CGGAGGAU A ACCAUCCC	5147
2213	TGAAGGAT GGCTAGTTACAAGGA GCTGTGGT	2369	ACGACACC A AUCCCCCA	5148
2223	GAGCCTGT GGCTAGTTACAAGGA CCTGGGGG	2370	CCCCCACC A ACAGGGUC	5149
2227	CCGTGTGC GGCTAGTTACAAGGA CCGUCCTG	2371	CAGGGUAG G GCUCACGG	5150
2231	ACGTGGGT GGCTAGTTACAAGGA GCGCCTGT	2372	ACAGGGUC A ACGGAGGU	5151
2237	CGGATGAT GGCTAGTTACAAGGA CTCGGTGA	2373	GCACGGAG G GUCAUCGC	5152
2240	CTGGTGAT GGCTAGTTACAAGGA GACCTCCG	2374	CGGGGGUC A AUCGCCAG	5153
2243	AGGCTGGC GGCTAGTTACAAGGA GATGAGGT	2375	AGGUCAUC G GCCAGCAU	5154
2247	GATGAGGC GGCTAGTTACAAGGA TGGGGATG	2376	CAUCGCCA G GCAUCAUC	5155
2249	TTGATGAT GGCTAGTTACAAGGA GCTGGCGA	2377	UCGCCAGC A AUCAUCAA	5156
2252	GGTTTGAT GGCTAGTTACAAGGA GATGCTGG	2378	CCAGCAUC A AUCAAACC	5157
2257	TCTGGGGT GGCTAGTTACAAGGA TTGATGAT	2379	AUCAUCAA A ACCCCAGA	5158
2265	GTAGCTGT GGCTAGTTACAAGGA TGTGGGGT	2380	ACCCCAGA A ACAUGUAC	5159
2267	CAGTACGG GGCTAGTTACAAGGA GTGTGGGG	2361	CCCAGAAC A ACGUACUG	5160
2269	CGCAGTAC GGCTAGTTACAAGGA GTGTTGTG	2382	CAGAACAC G GUACUGCG	5161
2271	CACGCAGT GGCTAGTTACAAGGA ACGTGTTC	2383	GAACACGG A ACUGCGUG	5162
2274	ACGCACGG GGCTAGTGACAAGGA AGTACGTG	2384	CACGUACU G GCGUGCGU	5163
2276	CGACGCAG GGCTAGTTACAAGGA GTACGTACG	2385	CGUACUGC G GUGCGUCG	5164

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2279	AGGCAGGC GGCTAGCTACAAGGA AGGCAGTA	2385	UACUGCGU G GCGUCGGU	5165
2283	ATAGCGAC GGCTAGCTACAAGGA GCGGGCAG	2386	GUAGGUGC G GUCGGUAU	5166
2284	GGGCAGAC GGCTAGCTACAAGGA CGGTGCAC	2388	GUCCGUCG G GUAUGCCG	5167
2286	CAGGGCAT GGCTAGCTACAAGGA ACGAGCGC	2389	GUGUCGGU A AUGCCGUG	5168
2288	AGGCGGGC GGCTAGCTACAAGGA ATAGCGAC	2390	GUCGGUAU G UCCGUCGU	5169
2291	TGGACGAC GGCTAGCTACAAGGA TCGATACC	2391	GCUAUGCC G GUCGUUCA	5170
2294	TTCTGGAC GGCTAGCTACAAGGA CACGGCAT	2392	AUGCCGUG G GUCCAGAA	5171
2302	TGGGCGGC GGCTAGCTACAAGGA CTTCTGGA	2393	GUCGGAAG G GCGCCCA	5172
2306	CCATGGGC GGCTAGCTACAAGGA GGCTTCT	2394	AGAAGGCC G GCCAUGG	5173
2310	GTGGCCAT GGCTAGCTACAAGGA GGGCGGC	2395	GGCCGCCC A AUGGGCAC	5174
2314	GGACGTAC GGCTAGCTACAAGGA CCATGGGC	2396	GCCCAUGG G GUACGUCC	5175
2316	GGGGACGT GGCTAGCTACAAGGA GCGCATGG	2397	GCAUGGGC A ACGUCCGC	5176
2319	CTGGGGAC GGCTAGCTACAAGGA GTGGCCAT	2398	AUGGGCAC G GUCCGCGA	5177
2322	GGCCTGGC GGCTAGCTACAAGGA GGGGACGT	2399	GCAGGGCC G GCAAGGCC	5178
2327	TTGAAGGC GGCTAGCTACAAGGA CTTGAAGA	2400	UCGGCAAG G GCCUUCAA	5179
2337	GACGTGGC GGCTAGCTACAAGGA TCTTGAAG	2401	CUUCAAGA G GCCACGUC	5180
2340	AGAAGGGT GGCTAGCTACAAGGA GGTCTTGG	2402	CAAGGGCC A ACGUCCCC	5181
2342	GTAGGAGC GGCTAGCTACAAGGA GTGGCGCT	2403	AGAGCCAC G GUCUCUAC	5182
2349	GTCAAGGT GGCTAGCTACAAGGA AGAGGAGT	2404	ACGUCUCU A ACCUUGAC	5183
2354	AGGTCTGT GGCTAGCTACAAGGA CAAGGTAG	2405	CUACCUUG A ACAGACCU	5184
2358	CTGGAGGT GGCTAGCTACAAGGA TGGTCAAG	2406	CUUGACAG A ACCUCCAG	5185
2365	TGTACCGC GGCTAGCTACAAGGA TGGAGGTC	2407	GACCUCCA G GCGGUACA	5186
2368	GCATGTAC GGCTAGCTACAAGGA GGTGGAG	2408	GUCCAGCC G GUACGUGC	5187
2370	TGCCATGT GGCTAGCTACAAGGA AGGGTGG	2409	CCAGCGGU A ACAGCGGA	5188
2372	TGTGGCAT GGCTAGCTACAAGGA GTACCGCT	2410	AGCCGUAC A AUGCGACA	5189
2374	ACTGTGGC GGCTAGCTACAAGGA ATGTACCG	2411	CCGGACAG G GCGACAGU	5190
2377	CGAACTGT GGCTAGCTACAAGGA GGCATGTA	2412	GACAUGCG A ACAGUUCG	5191
2380	CCACGAAC GGCTAGCTACAAGGA TGTGGCAT	2413	AUGCGACA G GUCGGUGG	5192
2384	TGAGGCAG GGCTAGCTACAAGGA CCACTGTG	2414	GACAGUCG G GUGGUGCA	5193
2387	AGGTGAGC GGCTAGCTACAAGGA CACGAACT	2415	AGUUCGUG G GCGCACCU	5194
2391	CGGCAGGT GGCTAGCTACAAGGA GAGGTGAG	2416	CGUGGUGC A ACCUGCAG	5195

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2395	TCTCCTGC GGCTAGCTACAACGA AGCCGAGC	2417	GGCTACCU G GGAGGAGA	5196
2402	GGCTGGT GGCTAGCTACAACGA CTCCTGCA	2418	UGCAGGAG A ACCACCCC	5197
2406	CAGGGGAC GGCTAGCTACAACGA TGGTCTCC	2419	GGAGACCA G GCCCGCUG	5198
2410	CCCTCAGC GGCTAGCTACAACGA GGCCTGGT	2420	ACCAGCCC G GGTGAGGG	5199
2415	GAGGGAGC GGCTAGCTACAACGA CCCCGAGC	2421	GGTGAGGG A AGCCTCAC	5200
2420	ACGAGGAC GGCTAGCTACAACGA ATGCCTGA	2422	UGAGGGAU G GCCGUCGG	5201
2423	ATGAGGAC GGCTAGCTACAACGA GGCATCCC	2423	GCGAUGCC G GTCGUCAC	5202
2426	TCGATGAC GGCTAGCTACAACGA GAGGCCAT	2424	AUGCCUCC G GTCACCGA	5203
2429	TGTTCGAT GGCTAGCTACAACGA GAGGACAT	2425	CCGGCGTT A AUCGACGA	5204
2434	AGTGTGC GGCTAGCTACAACGA TCGATGAC	2426	GUCAUCGA G GCAGAGCU	5205
2435	GGAGGAC GGCTAGCTACAACGA TTTCCTCG	2427	GCAGAGCA G CTGCCCGC	5206
2451	GAGTCAT GGCTAGCTACAACGA CCAGGGAG	2428	CTGCCTGA A ATGGAGGC	5207
2455	CTGCCCGC GGCTAGCTACAACGA CTGAATCA	2429	UGAGGGAG G CTTACCAG	5208
2460	GGCATGC GGCTAGCTACAACGA TCGGCTCA	2430	UGAGCCGA G GCACUGCC	5209
2463	GAGCCGAT GGCTAGCTACAACGA TGGTGGCC	2431	GGCTAGCA G GUGGCCAC	5210
2466	GAAGGGC GGCTAGCTACAACGA CACCTGTC	2432	CAGGACGG G GCTGCCUU	5211
2475	GAAGACAT GGCTAGCTACAACGA CGAAGAAG	2433	CCUUCUUCG A AGGGUUC	5212
2477	AGGGGAGC GGCTAGCTACAACGA GTGGAAGA	2434	UCUUCCAC G GUCUUCCC	5213
2485	TGAAGCCT GGCTAGCTACAACGA AGGAAGAC	2435	GGCTUCCU A ACGCUGCA	5214
2487	CATGAAGC GGCTAGCTACAACGA GTAGGAAG	2436	CCGCUGAC G GCUGCAUG	5215
2492	TGGCACAT GGCTAGCTACAACGA GAAGGGTA	2437	GAGGCUUC A AGGCGCCA	5216
2494	GCTGGCAC GGCTAGCTACAACGA ATGAAGCG	2438	GGCUUCAU G GUGCCACC	5217
2496	GTGCTGGC GGCTAGCTACAACGA ACATGAAG	2439	CUUCAUGG G GCCACCAC	5218
2499	GGCTGGT GGCTAGCTACAACGA GGCACATG	2440	CAUGGCCC A ACCAGGGC	5219
2502	CAGGGGCC GGCTAGCTACAACGA GGTGGCAC	2441	GUGCCACC A ACGGGGUG	5220
2504	GCGAGGGC GGCTAGCTACAACGA GGGGTGGC	2442	GCCACCAC G GGGUGGCG	5221
2507	ATGGGCAC GGCTAGCTACAACGA GGCCTGGT	2443	ACCACGCC G GUGGCCAU	5222
2509	TCATGGGC GGCTAGCTACAACGA ACGGGGTG	2444	CAGGCCGU G GUGGCAUCA	5223
2511	CCTGCATCC GGCTAGCTACAACGA GCACGGCG	2445	GGCCUGCC G GCAUCAGG	5224
2513	CCCCTGAT GGCTAGCTACAACGA GCGCACGG	2446	GCGGGGGC A AUCAGGGG	5225
2520	GGACTGGC GGCTAGCTACAACGA CCTTGATG	2447	CAUCAGGG G GCCAGUCC	5226

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2524	GCTAGGAT	GGCTAGGTACAAGGA TT...	2448	AG......AG G GUCCUAGG	5227
2529	CTGGACGG	GGCTAGGTACAAGGA AGGA.TTG	2449	.CAAGCGU A ACUUCAG	5228
2531	CACTGGAC	GGCTAGGTACAAGGA GTAGGACT	2450	AGUCCUAC G GUCCAGUG	5229
2536	CCTGGCAC	GGCTAGGTACAAGGA TGGAGGTA	2451	UAGGUCCA G GUAGCAGG	5230
2538	CCCCTGGC	GGCTAGGTACAAGGA ACTGGAGG	2452	CUUCCAGG G GCCAGGGG	5231
2545	TGGGGAT	GGCTAGGTACAAGGA CCCCTGGC	2453	GCCAGGGG A AUCCGGA	5232
2551	AGCGTTGC	GGCTAGGTACAAGGA GGGATCCC	2454	GGGAUCCC G GCAGGGCC	5233
2556	GAGGGAGG	GGCTAGGTACAAGGA CCTGGGGG	2455	CCCCCAGG G GUACCUAC	5234
2561	CAGAGGAT	GGCTAGGTACAAGGA GGAGGCCT	2456	AGGGCCUC A AUCCGGUC	5235
2570	AGCAGCCT	GGCTAGGTACAAGGA GGAGGAGA	2457	UCCUGGCC A ACGCCGCC	5236
2572	AGGAGGAC	GGCTAGGTACAAGGA GGGGGAG	2458	UUUCCCAC G GCCGCGCC	5237
2575	TGGAGGAG	GGCTAGGTACAAGGA AGGGTGGA	2459	UCCAGCCU G GUGUGCA	5238
2580	CAGGCGGC	GGCTAGGTACAAGGA AAGGAGC	2460	GCGGGGU G GGAGGCUG	5239
2583	GCAGAGGC	GGCTAGGTACAAGGA TGTGGGAC	2461	GGUGGGGA G GCGGGUGC	5240
2587	CCCAGGGC	GGCTAGGTACAAGGA AGGGGGGA	2462	UGCAGCGU G GGCGUACG	5241
2589	GGGGTAGG	GGCTAGGTACAAGGA ACAGGCTG	2463	CAGCCUGU G GCUACGGC	5242
2592	GTGGGCGT	GGCTAGGTACAAGGA AGCACAGG	2464	CCGGGGCU A ACGGCGAC	5243
2595	GAGGTGGC	GGCTAGGTACAAGGA UGTGGTGG	2465	GUGGUGACG G GCGGCAUG	5244
2599	GCCCACGC	GGCTAGGTACAAGGA CCGCCUGG	2466	CUGCGGGG A ACAUGGAG	5245
2600	TTCTGCAT	GGCTAGGTACAAGGA GTGGGGGT	2467	ACGGCGAC A AUGGAGAA	5246
2607	CAGCTGGT	GGCTAGGTACAAGGA TTGCCATG	2468	CAGGAGGA A ACAAGCUG	5247
2611	CAGACAGG	GGCTAGGTACAAGGA TGGTGCTG	2469	GAGAACAA G GCUUUGG	5248
2614	CCGCAAAC	GGCTAGGTACAAGGA AGCTUGTT	2470	AACAAGCU G GUUGCGG	5249
2618	ATGCCCGC	GGCTAGGTACAAGGA AAACAGCT	2471	AGCUGGUU G GCGGGAU	5250
2624	CCCCGAAC	GGCTAGGTACAAGGA CCCCCGAA	2472	UUGGCGGG A AUGCGGC	5251
2629	CCCACCGC	GGCTAGGTACAAGGA CCAAUGGC	2473	GGAGGCGG G GUCGGACG	5252
2634	CAGCCCGT	GGCTAGGTACAAGGA CCGGCGGA	2474	UCGGGGGG A ACGGGCUG	5253
2639	GGACCAGC	GGCTAGGTACAAGGA GGTGCCGG	2475	CGGGACGG G GCUGCUGC	5254
2641	GCAGGAGC	GGCTAGGTACAAGGA AGCCCGTC	2476	GAGCGGU G GUGCUGC	5255
2647	CCGAAGGC	GGCTAGGTACAAGGA AGGAAGAG	2477	CCGCGCCU G GCGUCUGG	5256
2649	CAGCCAAG	GGCTAGGTACAAGGA GCAGGAGC	2478	GGUCCUGC G GUUGGGUG	5257

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2654	TCAACGAC GGCTAGCTACAAAGA CAAAAGGA	2479	UGCCGUUGG G GGGGAUGA	5258
2658	GAAATCAT GGCTAGCTACAAGA CCAGCAAA	2480	UGGGGAGG A AUGAGGUC	5259
2661	CAAGAAAT GGCTAGCTACAAGA CATCCACC	2481	GGUGGAUG A AUUCCUUG	5260
2668	TCAACAAG GGCTAGCTACAAGA AGGAAATC	2482	GAUUCUUG G GCUGGUGA	5261
2672	GGGCAAT GGCTAGCTACAAGA CAACAAGA	2483	UCUUGUUG G GCGACAUC	5262
2675	TGAGCGGT GGCTAGCTACAAGA CACGAACA	2484	UGGUGGGC A AGAGCUGA	5263
2677	GGTGAAGT GGCTAGCTACAAGA GTCACGAA	2485	UGGGGGAC A ACCUCACC	5264
2682	GGTGAAGT GGCTAGCTACAAGA GAGGTGTC	2486	GACACUUC A ACUGACC	5265
2687	GCGTGGGT GGCTAGCTACAAGA GAGGTGAG	2487	CUCACCUC A ACCCACGC	5266
2691	TTTCGCGG GGCTAGCTACAAGA GGCTGAGG	2488	CCUCACCU A ACGCGAAA	5267
2693	GTTTCGC GGCTAGCTACAAGA GTCGGGAA	2489	CGACGAC G GCGAAAAC	5268
2699	AGGAAAGT GGCTAGCTACAAGA TTTCGCGT	2490	ACGGAAAA A ACUUCCU	5269
2711	ACCAGGGT GGCTAGCTACAAGA CCTGAGGA	2491	UCCUCAGG A ACCCUGGU	5270
2717	CCTCGGAG GGCTAGCTACAAGA CAGGGTCC	2492	GAACCCUG G GUACGAGG	5271
2724	AGGGAGAC GGCTAGCTACAAGA CTTGGAAT	2493	GGGACGAG G GGCGCCCU	5272
2728	AGAGGGAG GGCTAGCTACAAGA ACCTCGGA	2494	UCCGAGGU G GUCCCUGA	5273
2734	AGGCATAC GGCTAGCTACAAGA TCAGGGAG	2495	GUCCCUGA G GUAAGGAU	5274
2736	CGAGGTAT GGCTAGCTACAAGA ACTCCAGG	2496	CCUAAGGAU A AUGGCUGGC	5275
2739	CAGGGAC GGCTAGCTACAAGA CATATTCA	2497	UGAGUAUG G GCUGGCUG	5276
2742	CACCACGC GGCTAGCTACAAGA AGGCATAC	2498	CUAUAGCU G GCGCGGUG	5277
2744	TTCAACAC GGCTAGTTACAAGA GCAGGCAT	2499	AUGGCUGG G GUGGUGAA	5278
2747	AAGTTCAC GGCTAGCTACAAGA CACGGCAG	2500	GCUGGUG G GUGAACUU	5279
2751	CGGGAAGT GGCTAGCTACAAGA TCACCACG	2501	CGGGGUGA A ACUUGCGG	5280
2755	TCTTCCGC GGCTAGCTACAAGA AAGTTCAC	2502	GUGAACUU G GUGAAGA	5281
2762	ACCACTCT GGCTAGCTACAAGA CTTCCGTC	2503	GGUGAAG A ACAUUCGC	5282
2765	TTCACCAC GGCTAGCTACAAGA TGTCTTCG	2504	GGAAGACA G GUGGUGAA	5283
2768	AAGTTCAC GGCTAGCTACAAGA CACTGTCT	2505	AGUGGGGA A ACUUCCCU	5284
2772	AGGGAAGT GGCTAGCTACAAGA TCACCACT	2506	AGGGGUGA A ACUUCCCU	5285
2780	TCTTCTAC GGCTAGCTACAAGA AGGGAAGT	2507	ACUUCCCU G GUAGAAGA	5286
2787	GGCCTCGT GGCTAGCTACAAGA CTTCTACA	2508	UGUAGAAG A ACGAGGCC	5287
2792	GGCAGGGC GGCTAGCTACAAGA CTCGGCTT	2509	AAGCGGAG G GCCCUGGG	5288

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2799	CGTGCGAT GGCTAGTTA AAGGA ??AGGGGC	4510	???????? G GUAGCAGG	5289
2803	AGCCCTGC GGCTAGTTACAAGGA CAGGCAGG	2511	???????? G GAAGAGU	5290
2804	AAAGCGGT GGCTAGTTACAAGGA GGGAGGCA	2512	???????? A ACGGCUUU	5291
2807	ACAAAAGC GGCTAGTTACAAGGA CGTGCGAT	2513	???????? G GCUUUGG	5292
2813	ATCTGAAC GGCTAGTTACAAGGA AAAAGGGG	2514	???????? G GUUCAGAG	5293
2819	GCGGGGAT GGCTAGTTACAAGGA TTGAACAA	2515	???????? A AUGCGGGC	5294
2811	GGGCGGGC GGCTAGTTACAAGGA ATCTGAAC	2516	???????? G GCGGGCUUC	5295
2825	GGGTGGGC GGCTAGTTACAAGGA GGGCATCT	2517	???????? G GGGCAGGG	5296
2829	TAGGGGGT GGCTAGTTACAAGGA GGGGGGC	2518	???????? A AGGGCUGA	5297
2831	GAATAGGC GGCTAGTTACAAGGA ????????	2519	???????? G GGCGACC?	5298
2835	AGGGGAAT GGCTAGTTACAAGGA AGGGGGTG	2520	???????? A AUGCGGGU	5299
2845	GGGGGCAG GGCTAGTTACAAGGA CAGGGGAA	2521	???????? G GUGGGGCC	5300
2847	CAGGCGGC GGCTAGTTACAAGGA AGCAGGGG	????	???????? G GGGCCUG	5301
2850	CAGGAGGC GGCTAGTTACAAGGA ????????	????	???????? G GCGCGUUG	5302
2854	GGAGCAGC GGCTAGTTACAAGGA AGGCAGCA	2524	???????? G GUUGCUGG	5303
2855	TAGGGAGC GGCTAGTTACAAGGA AGGAGGG?	????	???????? G GUUGGAUA	5304
2862	GGGGGTAT GGCTAGTTACAAGGA CGAGGAGG	????	???????? A AUAUCGGG	5305
2865	GGGGGGT GGCTAGTTACAAGGA ATGTAGGA	2527	???????? A ACGGCGAC	5306
2870	TGCAGGGT GGCTAGTTACAAGGA AGGGTAT	2528	???????? A ACGUCGGA	5307
2879	CTGTGGAC GGCTAGTTA AAGGA GTGGAGGG	2529	???????? G GUGGGGAG	5308
2881	GGCTGTGC GGCTAGTTACAAGGA AGTTGGAC	2530	???????? G GCGAGGCG	5309
2886	GTAGTGGC GGCTAGTTACAAGGA CGTGCACC	2531	???????? G GCGGACUAC	5310
2889	GGAGGAGGT GGCTAGTTACAAGGA GGCTTTGC	2532	???????? A ACUACUCC	5311
2892	GGTGGAGT GGCTAGTTACAAGGA AGTGGGTC	2533	???????? A ACUCCAGC	5312
2899	GGCATAGC GGCTAGTTACAAGGA TGGAGTAG	2534	???????? G GCUAUGGCC	5313
2901	CGGGGGAT GGCTAGTTACAAGGA AGGTAGAG	2535	???????? A AUGCGGGG	5314
2903	GTGGGGGC GGCTAGTTACAAGGA ATAGTTGG	2536	???????? G GCGGGGAC	5315
2909	ATGCAGGT GGCTAGTTACAAGGA CGGGGCAT	2537	???????? A ACCUCCAU	5316
2915	GGTGTGAT GGCTAGTTACAAGGA GGAGGTCC	2538	GGACCUCC A AUCAGAGC	5317
2921	AGACTGGC GGCTAGTTACAAGGA TGTGATGG	2539	CCAUCAGA G GCCAGUCU	5318
2925	GGTGAAAT GGCTAGTTACAAGGA TGGGTGTG	2540	CAGAGCCA G GUUUCACC	5319

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2930	TTGAAGGT GGCTAGGTACAAGGA GAGGACGG	2541	GCAGCCUC A ACCUCGAA	5320
2937	GCGGGAGC GGCTAGGTACAAGGA TGAAGGTG	2542	CACUUUCA A ACGGGAGC	5321
2940	GAGGGCC GGCTAGGTACAAGGA GGTTGAAG	2543	CUUCAGCC G GCGGCUUC	5322
2943	CTTGAAGC GGCTAGGTACAAGGA CGGGGTTG	2544	CAACGCG G GUUGCAAG	5323
2951	GGCTGAAG GGCTAGGTACAAGGA CTTGGAGG	2545	GCUGCAAG G GCUGGGAG	5324
2961	ACGGATGT GGCTAGGTACAAGGA TGCTGCCA	2546	UGGGAGGA A ACAGGCGU	5325
2963	CGAGGGAT GGCTAGGTACAAGGA GTCCTTCG	2547	GGAGGAAC A AUGCCUCG	5326
2965	TGCGAGGG GGCTAGGTACAAGGA ATGTTCGT	2548	AGGAACAU G GCGUCGCA	5327
2967	TTTGGGAC GGCTAGGTACAAGGA GCAGGTTC	2549	GAACAUGC G GUCGCAAA	5328
2970	GAGTTTGC GGCTAGGTACAAGGA GCGGCATG	2550	CAUGCGUC G GCAAGUCC	5329
2974	CAAAGAGT GGCTAGGTACAAGGA TTGAAGG	2551	CGUCGCAA A ACUCUUUG	5330
2984	CGCAAGAC GGCTAGGTACAAGGA GGCAAAGA	2552	UCUUUGGG G GUCUUGCG	5331
2989	TCGAGGGC GGCTAGGTACAAGGA AGAGGCCG	2553	GAAGCUU G GCGGCUGA	5332
2994	ACTTCAGC GGCTAGGTACAAGGA CGGCAGAC	2554	GUCUUGCG G GCUGAAGU	5333
2998	TGTGGACAC GGCTAGGTACAAGGA TTGAGGG	2555	CGGCUGAA G GUGUCACA	5334
3000	GCTGTGAC GGCTAGGTACAAGGA ACTTCAGC	2556	GCUGAAGU G GUCACAGC	5335
3003	CAGGCTGT GGCTAGGTACAAGGA GACACTTC	2557	GAAGUGUC A ACAGCCUG	5336
3006	AAACAGGC GGCTAGGTACAAGGA TGTGGACAC	2558	GUGUCACA G GCCUGUUU	5337
3010	CCAGAAAC GGCTAGGTACAAGGA ACCCTGTG	2559	CACAGCCU G GUUUCUGG	5338
3018	CTGGAAAT GGCTAGGTACAAGGA CCAGAAAC	2560	GUUUCUGG A AUUUGCAG	5339
3022	TGACCGGC GGCTAGGTACAAGGA AAACTGGC	2561	CUGGAUUU G GCAGGUGA	5340
3026	CTGGTCAG GGCTAGGTACAAGGA CTGCAAAT	2562	AUUUGCAG G GUGAACAG	5341
3030	GAGGCTGT GGCTAGGTACAAGGA TGTCTGGC	2563	GCAGGUGA A ACAGCCUC	5342
3033	CTGGAGGC GGCTAGGTACAAGGA TGTTCAGC	2564	GGUGAACA G GUUUCCAG	5343
3041	CAGACGGT GGCTAGGTACAAGGA CTGGAGGC	2565	GCCUCCAG A ACGGUCUG	5344
3044	GTGCACCG GGCTAGGTACAAGGA CGGTCTGG	2566	GCCAGAGG G GUCUGCAC	5345
3046	TGGTGCAC GGCTAGGTACAAGGA ACGGGCTG	2567	CAGACGGU G GUGCACCA	5346
3048	GTTGGGTC GGCTAGGTACAAGGA ACACCGTC	2568	GACGGUGU G GCACCAAC	5347
3050	ACGTTGGG GGCTAGGTACAAGGA GCACCGTC	2569	CGGUGCAC A ACCAACAU	5348
3054	GTAGATGT GGCTAGGTACAAGGA TGGTGCAC	2570	GUGCACCA A ACAUCUAC	5349
3056	TTGTAGAT GGCTAGGTACAAGGA GTGGTGC	2571	GCACCAAC A AUCUACAA	5350

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3060	GATCTTGT GGCTAGCTACAAGGA AGATGTTG	2572	CAACAUCU A ACAAGAUC	5351
3065	AGGAGGAT GGCTAGCTACAAGGA CTTGTAGA	2573	UCUACAAG A AUCCUCCU	5352
3073	CCTGCAGC GGCTAGCTACAAGGA AGGAGGAT	2574	AUCCUCCU G GCUGCAGG	5353
3076	ACGCCTGC GGCTAGCTACAAGGA AGGAGGAG	2575	CUCCUGCU G GCAGGCGU	5354
3080	CTGTAGGC GGCTAGCTACAAGGA CTGCAGCA	2576	UGCUGCAG G GCGUACAG	5355
3082	ACGTGTAC GGCTAGCTACAAGGA GAGTGCAG	2577	CUGCAGGC G GUACAGGU	5356
3084	AAACCTGT GGCTAGCTACAAGGA ACGCCTGC	2578	GCAGGCGU A ACAGGUUU	5357
3088	CGCGAAAC GGCTAGCTACAAGGA CTGTAGGC	2579	GCGUACAG G GGUUCACG	5358
3093	ACATGCGT GGCTAGCTACAAGGA GAAACCTG	2580	CAGGUUUC A ACGCAUGU	5359
3095	ACACACGC GGCTAGCTACAAGGA GTGAAACC	2581	CAUUUCAC G GCAUGUGU	5360
3097	GCAACACAT GGCTAGCTACAAGGA GCGTGAAA	2582	UUUCACGC A AUGUGUGC	5361
3099	CAGCACAC GGCTAGCTACAAGGA ATGCGTGA	2583	UCACGCAU G GUGUGCUG	5362
3101	TGCAGCAC GGCTAGCTACAAGGA ACATGCGT	2584	ACGCAUGU G GUGUUGCA	5363
3102	GTGCAGC GGCTAGCTACAAGGA ACACATGC	2585	GCAUGUGU G GCUGCAGC	5364
3106	GGAGCTGC GGCTAGCTACAAGGA AGGCACAC	2586	GGUGUGCU G GCAGCUGC	5365
3109	ATGCGAGC GGCTAGCTACAAGGA TGCAGCAC	2587	GUGUGCUG A GCUCCCAU	5366
3115	GATGAAAT GGCTAGCTACAAGGA GGGAGCTG	2588	CAGCUGCC A AUGCCAUC	5367
3120	TTGCTGAT GGCTAGCTACAAGGA GAAATGGG	2589	GCCAUUUC A AUCAGCAA	5368
3124	AAACTTGC GGCTAGCTACAAGGA TGATGAAA	2590	UUUCAUCA G GCAAGUUU	5369
3128	TTCCAAAC GGCTAGCTACAAGGA TTGCTGAT	2591	AUCAGCAA G GUUUGGAA	5370
3138	TGTGGGGT GGCTAGCTACAAGGA TTTCCAA	2592	UUGGAAGA A ACCCACA	5371
3143	AAAAATGT GGCTAGCTACAAGGA GGGGTTCT	2593	AGAACCCC A ACAUUUU	5372
3145	GGAAAAAT GGCTAGCTACAAGGA GTGGGGTT	2594	AACCCCAC A AUUUUUCC	5373
3154	TGACCGGC GGCTAGCTACAAGGA AGGAAAAA	2595	UUUUUCC G GCGGUCCA	5374
3156	GATGACCGC GGCTAGCTACAAGGA CCGGGAAA	2596	UUUCCCGG G GCGUCAUC	5375
3158	GAGATGACC GGCTAGCTACAAGGA GTGCAGGA	2597	UCCCGUGC G GUCAUCUC	5376
3161	TCAGAGAT GGCTAGCTACAAGGA GACGTCCA	2598	UGGGCGUC A AUCUCUGA	5377
3168	GGCGTGGT GGCTAGCTACAAGGA CAGAGATG	2599	CAUCUCUG A ACACGGCC	5378
3170	GAGGCGCGT GGCTAGCTACAAGGA GTCAGAGA	2600	UCUCUGAC A ACGGCCUC	5379
3173	AGGAGGC GGCTAGCTACAAGGA CGTGTCAG	2601	CUGACACG G GCCUCCCU	5380
3183	GGAGTAGC GGCTAGCTACAAGGA AGAGGGAG	2602	CUCCCCCU G GCUACUCC	5381

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3186	GATGGAGT GGCTAGCTACAACGA AGGAGAGG	2603	CCTCTGCC A ACTCCACC	5382
3191	TTCAGGAT GGCTAGCTACAACGA GGAGTAGC	2604	GCUACUCC A AUCCUGAA	5383
3200	TTCATGGC GGCTAGCTACAACGA TTTCAGGA	2605	UCUUGAAA G GCCAAGGA	5384
3207	CCCTGCGT GGCTAGCTACAACGA TCTGGGCT	2606	AGCCAAGA A ACGCAGGG	5385
3209	ATCCCCGC GGCTAGCTACAACGA GTCCTTGG	2607	GCAAGAAC G GCAGGGAU	5386
3215	AGCGACAT GGCTAGCTACAACGA CCCGGCGT	2608	ACGCAGGG A AUGUCGCU	5387
3217	CCAGCCAC GGCTAGCTACAACGA ATCCTGGC	2609	GCAGGGAU G GUGCGTGG	5388
3220	CCGGCAGC GGCTACGCTACAACGA GACATCCC	2610	GGGAUGUC G GCUGGGGG	5389
3227	CCCTTGGC GGCTAGCTACAACGA CCCCAGGC	2611	CGUUGGGG G GCCAAGGG	5390
3234	GGAGGCGC GGCTAGCTACAACGA CCTTGGCC	2612	GGUCAAGG G GCGCCGCC	5391
3236	CCGGCGGC GGCTAGCTACAACGA GGCCTGGC	2613	CCAAGGCG G GCGGCCGG	5392
3239	GGGCGGAU GGCTAGCTACAACGA CGCAGGGT	2614	AGGGCGGC G GCCGGCGC	5393
3243	CAGAGGGC GGCTAGCTACAACGA CGGCGACG	2615	CGGCGCCG G GCCCUCUG	5394
3250	CCGAGGGC GGCTAGCTACAACGA AGGGCCCC	2616	GGCCCUCU G GCCUGCCG	5395
3260	CCGACGGC GGCTAGCTACAACGA CGGGGAGG	2617	CCUGCGAG G GCGGUGCA	5396
3265	CACTGCAC GGCTAGCTACAACGA CCCGTGAG	2618	CCGAGGGC G GUGCAGGG	5397
3266	GGCACCGC GGCTAGCTACAACGA ACGGCGCC	2619	GAGCGGUC G GCAGUGGC	5398
3268	ACAGGCAGC GGCTAGCTACAACGA TGCAGGGC	2620	GCGGGACA G GUGGUUGU	5399
3271	GGGACAGC GGCTAGCTACAACGA CACTGCAC	2621	GUGCAGGG G GCGCGGGC	5400
3274	GGTGGCAC ACTACCTGCAACGA AGGGACGG	2622	CAGGGGGC C GCGCGGCC	5401
3276	GTGGTGGC GGCTAGCTACAACGA ATAGCCAC	2623	GGGGCGGG G GCCAGGAA	5402
3279	TGCTTGGT GGCTAGCTACAACGA GGCACAGC	2624	GCUGGGCC A ACGAGGCA	5403
3284	AGGAATGG GGCTAGCTACAACGA TTGGTGGC	2625	GCGACGAG G GCGCTCCU	5404
3286	GCAGGAAT GGCTAGCTACAACGA TGTGGAGG	2626	CACGAAGG A AUGCGGGC	5405
3292	GGTGGAGT GGCTAGCTACAACGA AGGAATGG	2627	GCAUGGCU G GCUCAAGC	5406
3299	GAGCCAGC GGCTAGCTACAACGA TGAGCCAG	2628	CUGCUCAG G GCUGACGC	5407
3302	TGTCCAGT GGCTAGCTACAACGA TAGCTTGA	2629	GCAAGGUG A ACGCGACA	5408
3307	CAGGGTGC GGCTAGCTACAACGA GGAGTCAG	2630	CGGACGCG A ACACGGUG	5409
3309	GACACGGT GGCTAGCTACAACGA GGCGAGTC	2631	GACCGGAC A ACGGUGGC	5410
3312	GGTGACAC GGCTAGCTACAACGA GGTGGGCA	2632	GGGACACC G GGGUGACC	5411
3314	TAGGTGAC GGCTAGCTACAACGA AGGGTGTC	2633	GACACGGU G GUCACCUA	5412

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3317	ACCTAGGT GGCTAGCTACAATGA GACAGGGT	2634	ACCGCGUC A ACCUACGC	5413
3321	TGGGCAGT GGCTAGCTACAATGA AGGCGACA	2635	UCGCACCU A ACGUGCCA	5414
3323	AGTGGGAC GGCTAGCTACAATGA GTAGGTGA	2636	UCACGUAC G GUGGUACU	5415
3325	GGAGTGGC GGCTAGCTACAATGA AGGTAGGT	2637	AGUUAGGU G GCCACUCC	5416
3329	CCAGGAGT GGCTAGCTACAATGA GGCACGTA	2638	UACGUGCU A ACUCCUGG	5417
3337	TGAGTGAC GGCTAGCTACAATGA CCCAGGAG	2639	CUACGGGU G GCCACUCA	5418
3340	TCCCGAGT GGCTAGCTACAATGA GAGGGGAG	2640	CUGGGGUC A ACUCAGGA	5419
3347	TGGGCTGT GGCTAGCTACAATGA CTGAGTG	2641	CACUCAGG A ACAGCCCA	5420
3350	GTGTGGGC GGCTAGCTACAATGA TGTCCTGA	2642	UCAGGACA G GCCCAGAC	5421
3356	AGGTGGGT GGCTAGCTACAATGA TTAGGTG	2643	CAGCCUAG A AGGCAGGU	5422
3358	TCAGGTGC GGCTAGCTACAATGA GTCTGGGC	2644	GCCCAGAC G GTAGGUGA	5423
3361	GACUGGGC GGCTAGCTACAATGA TGGGTCTG	2645	CAGACGCA G GCUGAGUC	5424
3368	CTTCCGAG GGCTAGCTACAATGA GCAGTGGC	2646	GCAGGUGA C GGCGGGAG	5425
3373	CCGGGAGC GGCTAGCTACAATGA TCCCGAGT	2647	ACCGGGAA G GCGUCCGG	5426
3383	AGGGTGGT GGCTAGCTACAATGA CCCGGGGA	2648	ACCCCGGG A ACGACGGU	5427
3380	GTGAGGGT GGCTAGCTACAATGA CTCCCCGG	2649	CGGGGAGG A AGGCGAC	5428
3388	CAGCCAGT GGCTAGCTACAATGA GCCCCCCC	2650	GGGACGAC G GUGGAGUG	5429
3392	AGGGCAGT GGCTAGCTACAATGA CAGGGTGG	2651	CGAGCCUG A ACUGCCCU	5430
3395	TCCAGGGC GGCTAGCTACAATGA AGTCAGGG	2652	GUCAACU G GCCCUGGA	5431
3404	GCTGGGGC GGCTAGCTACAATGA CTCCAGGG	2653	CCCCGGAG G GCCGCAGC	5432
3407	TTGGCTGC GGCTAGCTACAATGA GGCCTCCA	2654	UGGGAGGC G GTAGCCAA	5433
3410	GGGTTGGC GGCTAGCTACAATGA TGTGGCCT	2655	AGGCGGCA G GCCAACCC	5434
3414	TGCGGGGT GGCTAGCTACAATGA TGGCTGCG	2656	CGCAGUCA A ACGGGCA	5435
3419	GGCAGTGC GGCTAGCTACAATGA CGGGTTGG	2657	CCAAGCGG G GCAUGCC	5436
3421	AGGGCAGT GGCTAGCTACAATGA GCCGGGTT	2658	AACCGGGT A ACUGCCCU	5437
3424	CTCAGGGC GGCTAGCTACAATGA AGTGCCCC	2659	CCGGAUU G GCCCCAG	5438
3434	CTTGAAGT GGCTAGCTACAATGA CTGAGAGC	2660	GCCCUCAG A ACUUCAAG	5439
3440	AGGAUGGT GGCTAGCTACAATGA CTTGAAGT	2661	ACUUCAAG A ACUAUCCU	5440
3443	TCGAGGAT GGCTAGCTACAATGA GGTCTTGA	2662	UCAAGACC A AUCCUGGA	5441
3450	CCAUCAGT GGCTAGCTACAATGA CCAGGATC	2663	CACCCGG A ACUGCAGGG	5442
3454	GTGGGCAT GGCTAGCTACAATGA CAGCCUAG	2664	CUGGACUG A AUGGCCAC	5443

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3457	CGGGUGAC GGCUAGUUAGAAUGA CAUCGGUC	2665	GACUGAUG G GCCACCCG	5444
3460	GGGGUGGU GGCUAGUUAGAAUGA UGUUAUCA	2666	UGAAGGCC A ACCCGCCC	5445
3464	CUGUGGGU GGCUAGUUAGAAUGA GGGUGGGC	2667	GGCUACCC G GCCCACAG	5446
3468	CUGGGUGU GGCUAGUUAGAAUGA GGCUGGGU	2668	ACCGGCCC A ACAGCCAG	5447
3471	GGCUGGGU GGCUAGUUAGAAUGA UUGGGGGG	2669	CGGCCACA G GCCAGGCC	5448
3476	CUGUGGGC GGCUAGUUAGAAUGA CUGGCUGU	2670	ACAGCCAG G GCCAGAG	5449
3483	GUGUCUGC GGCUAGUUAGAAUGA UUUGGGGU	2671	GCCAGAGA G GCAGACAC	5450
3487	GCUGGUGU GGCUAGUUAGAAUGA CUGUCUGC	2672	GAGACAC A ACACCAGC	5451
3489	CUGUGGUU GGCUAGUUAGAAUGA GGUUGUUC	2673	CACCAGC A ACCAGCAG	5452
3492	AGGGUGGC GGCUAGUUAGAAUGA UGGUGUCU	2674	ACCAGCAG G GCAGCCCU	5453
3496	GUGUGGGC GGCUAGUUAGAAUGA UGGUGGUG	2675	CAGCCCU G GUCACGCC	5454
3501	GGGUGUAG GGCUAGUUAGAAUGA AGGGCUGC	2676	GCCCCU G GUCACGCC	5455
3504	CUGGGAGU GGCUAGUUAGAAUGA GACAGGGC	2677	GUCACGCC A ACGCCGGG	5456
3506	AGGGCGGC GGCUAGUUAGAAUGA GUGACAGG	2678	CCGGCAC G GCCGGGCU	5457
3511	GUGAGAGC GGCUAGUUAGAAUGA CGGGUUUG	2679	CACGCCGG G GCUCUACG	5458
3516	UGGANGU GGCUAGUUAGAAUGA AGAGGGGC	2680	CGGCUCU A ACGCCCCA	5459
3519	GCUGGAC GGCUAGUUAGAAUGA GUAGGGU	2681	GCUCUAC G GUCCCAGG	5460
3535	UGGGCGGC GGCUAGUUAGAAUGA GUGGGGGC	2682	AGGGAGGG G GGGGCCCA	5461
3538	GUGUGGGC GGCUAGUUAGAAUGA UGGGCUGC	2683	GAGGGGC G GGUCACAC	5462
3542	CUGGGUGU GGCUAGUUAGAAUGA GGGGUGGC	2684	GGGGCGGC A ACACCAG	5463
3544	GCCUGGGU GGCUAGUUACGAAUGA GUGGCGG	2685	CGGCCAC A ACGGAGGC	5464
3550	GUGUGGGU GGCUAGUUAGAAUGA CUGGGUGU	2688	ACAUUCAG G GCGGGCAU	5465
3554	AGGGUGGC GGCUAGUUAGAAUGA GGGCCUGG	2687	GUAAGGGC G GCACGGUU	5466
3556	CUAGGGGU GGCUAGUUAGAAUGA GGGGGGCU	2688	AGGAUGGU A ACGGCUGG	5467
3559	GUUGGGGC GGCUAGUUAGAAUGA GGGUGGGC	2689	CUGGACG G GUUGGGAG	5468
3566	CUCCAGAC GGCUAGUUAGAAUGA UUGGAGGG	2690	GGUUGGGA G GUUGUGAG	5469
3573	ACUCAGGC GGCUAGUUAGAAUGA CUUAGAGU	2691	AGGUUGGA G GUCUGAGU	5470
3579	ACACUGGC GGCUAGUUAGAAUGA UCAGGGGU	2692	AGGCUGA G GUGAGUGU	5471
3583	CUAAAACC GGCUAGUUAGAAUGA UCACUCAG	2693	CUGAGUGA G GUGUUUGG	5472
3585	GGCCAAAC GGCUAGUUAGAAUGA ACUCACUU	2694	GAGUGAGU G GUUUGGCC	5473
3590	GGGUUUGG GGCUAGUUAGAAUGA CAAACACU	2695	AGUGUUUG G GCCGAGGC	5474

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3596	ATGGAGGC GGCTAGTTA AAGGA CTTGGCCA	2696	UGGGGAG G GCCUGCAU	5475
3600	GGAGATGC GGCTAGCTACAAGGA AGGCCTAG	2697	CGAGGCCU G GCAUGUCC	5476
3602	GGGACAAT GGCTAGTTACAAGGA GCAGGCCT	2698	AGGCCUGC A AUGUCCGG	5477
3604	AGGCGGAC GGCTAGTTACAAGGA ATGCAGGC	2699	GCCUGCAU G GUCCCGCU	5478
3609	CCTTCAGG GGCTAGTTACAAGGA CGGACATG	2700	CAUGUCCG G GCUGAAGG	5479
3615	CAGTCAGG GGCTAGTTACAAGGA CTTCAGGC	2701	GGCUGAAG G GUUGAGUG	5480
3621	CGGACAGG GGCTAGTTACAAGGA TCAGGCTT	2702	AAGGCGGA G GUGUGCGG	5481
3623	AGGCGGAC GGCTAGTTACAAGGA ACTGCAGC	2703	GCUUGAGU G GUGUGGCU	5482
3629	GGCTGAGC GGCTAGTTACAAGGA CGGACACG	2704	ACUGCGUG G GCUUGAGC	5483
3634	GCCGAGGC GGCTAGTTACAAGGA CTCAGCCG	2705	CGGCUGAG G GCUUGAGC	5484
3640	ACAGTGGT GGCTAGTTA AAGGA TCAGGCCT	2706	AGGCUGGA G GCGAGUGU	5485
3644	CTGGACAG GGCTAGTTACAAGGA TGGUTCAG	2707	CUGAGCGA G GUGUCCAG	5486
3648	GGCTGGAG GGCTAGTTACAAGGA ACTGGCTC	2708	GAGGGAGU G GUUCAGCC	5487
3651	CCTTGGGC GGCTAGTTACAAGGA TGAGTAGT	2709	AGUUGGCA G GCCAAGGG	5488
3658	CACTCAGC GGCTAGTTACAAGGA CCTTGGCT	2710	AGGCAAGG G GUGGAGUG	5489
3661	CTGGACAC GGCTAGTTACAAGGA TGAGGGCT	2711	AGGGUGGA G GUGGUCAG	5490
3665	TGGTGGAC GGCTAGTTACAAGGA ACTGAGCC	2712	GGUGGAGU G GUCGAGCA	5491
3670	AGGTGTGC GGCTAGTTACAAGGA TGGACAGT	2713	AGUGGUCA G GCGAGCCU	5492
3672	GCAGGTGT GGCTAGTTACAAGGA GCTGGAGA	2714	UGGUGAGU A AUAGGUGC	5493
3674	CGGTGGGT GGCTAGCTACAAGGA GTGGTGGA	2715	GGUAGGAC A AGGGGCGG	5494
3678	AAGAGGGC GGCTAGCTACAAGGA AGGTGTGC	2716	GGAGAUUU G GUGGUCUU	5495
3681	GTGAAGAC GGCTAGCTACAAGGA GCTAGGTG	2717	CAGUUGCU G GUCUUCAC	5496
3687	GGGGAAGT GGCTAGCTACAAGGA GAAGAGGC	2718	GGCUGCUC A ACUUCCCC	5497
3695	CAGGCTGC GGCTAGCTACAAGGA GGGGAAGT	2719	ACUUCCCC A ACAGGCUG	5498
3699	GGGGCAGC GGCTAGCTACAAGGA CTGTGGGG	2720	CCCCACAG G GCUGGGGC	5499
3703	GGGAGGGC GGCTAGCTACAAGGA CAGGCTGC	2721	ACAGGCUG G GCGUUGGG	5500
3705	AGGCGGGC GGCTAGTTACAAGGA GCCAGCCT	2722	AGGCUGGG G GCUUGGCU	5501
3710	GGTGGGGC GGCTAGCTACAAGGA CCAGCCCT	2723	GGCUUGGC G GUUGCACC	5502
3715	CCTGGGGT GGCTAGCTACAAGGA GGAGCCGA	2724	UGGCUGCU A ACCCAGG	5503
3723	AAGCTGGC GGCTAGCTACAAGGA CCTGGGGT	2725	ACCCCAGG G GCCAGCCU	5504
3727	GGAAAAGC GGCTAGCTACAAGGA TGGCCCTG	2726	CAGGGCCA G GCUUUUCC	5505

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3737	CUGGGGGU GGCUAGCUACAACGA GGGGAAAA	2727	UUUUCUC A ACCAGGAG	5506
3744	AGCCGGGC GGCUAGCUACAACGA CUCUGGCG	2728	CACCAGGA G GCCCGGCU	5507
3749	GUGGAAGC GGCUAGCUACAACGA CGGGUCU	2729	GGAGCCCG G GCUUCCAC	5508
3755	UGGGGAGU GGCUAGCUACAACGA GGAAGGUG	2730	CGGCUUCC A ACUCCCCA	5509
3762	UCCCACGU GGCUAGCUACAACGA GGGGAGUG	2731	CACUCCCC A ACAUAGGA	5510
3764	AUUCCACU GGCUAGCUACAACGA GUGGGGAG	2732	CUCUCCAC A AUAGGAAU	5511
3770	UGGACUAU GGCUAGCUACAACGA UGCUAUGU	2733	ACAUAGGA A AUAGCCCA	5512
3773	GGAUGGAC GGCUAGCUACAACGA UAUUCCUA	2734	UAGGAAUA G GCCCAUCC	5513
3777	CUGGGGAU GGCUAGCUACAACGA GGACUAUU	2735	AAUAGCCC A AUCCCCAG	5514
3785	UGGGGAAU GGCUAGCUACAACGA CUGGGGAU	2736	AUCCCCAG A AUUCGCCA	5515
3789	ACAAUGGC GGCUAGCUACAACGA GGAUUCUG	2737	CCAGAUUC G GCCAUUGU	5516
3792	UGAACAAU GGCUAGCUACAACGA GGGGAAUC	2738	GAUUCGCC A AUUGUUCA	5517
3795	GGGUGAAU GGCUAGCUACAACGA AAGGUGGA	2739	UUGCCAUU G GUUCACCC	5518
3799	CUAGGGGU GGCUAGCUACAACGA GUAUUGUG	2740	CAUUGUUC A ACCCUUCG	5519
3806	GGCAGGGC GGCUAGCUACAACGA GAGGGGUG	2741	CACCCUUC G GCCCUGCU	5520
3811	AGGAGGGC GGCUAGCUACAACGA AGGGGUAG	2742	CUUGCCCU G GCCCUCCU	5521
3821	UGGAGGGC GGCUAGCUACAACGA AAAGGAGG	2743	CCUCCCUU G GUCCUCCA	5522
3828	GUGGGGGU GGCUAGCUACAACGA GGAAGGCA	2744	UGCCUCCU A ACCCUAC	5523
3833	UGGAGGGC GGCUAGCUACAACGA GGGGGUGG	2745	CUCCCUAC A ACCAUCCA	5524
3837	ACCUGGAU GGCUAGCUACAACGA GGUGGGAG	2746	CCCCCACC A ACCCAGGU	5525
3843	GCCUGCAC GGCUAGCUACAACGA CUGGAUGG	2747	CCAUCCAG G GUCGAGAC	5526
3849	CUCAGGGU GGCUAGCUACAACGA CUGCACCU	2748	AGGCGGAG A ACCCUGAG	5527
3861	CCCAGGGU GGCUAGCUACAACGA CUUUCUCA	2749	GGAGAAGG A AUCCUGGG	5528
3870	CCCAGAGG GGCUAGCUACAACGA GUUCUGGG	2750	UGUUCGGA G GUUUUGGG	5529
3879	CUUCAAAU GGCUAGCUACAACGA UCCUAGAG	2751	CUCUGGGA A AUUUAGAG	5530
3886	UUGGUCAC GGCUAGCUACAACGA UUCAAAUU	2752	AUUUAGGA G GUGACCAA	5531
3889	CCUUUGGU GGCUAGCUACAACGA CACUGCAA	2753	UUGGAGUG A ACCAAAGG	5532
3895	GGCCACAC GGCUAGCUACAACGA CUUUGGUC	2754	GACCAAAG G GUGUGCCC	5533
3898	CAGGCAC GGCUAGCUACAACGA ACCUUCG	2755	CCAAAGGU G GUGCCCUG	5534
3900	UACAGGGC GGCUAGCUACAACGA ACACCUUU	2756	AAAGGUGU G GCCCUGUA	5535
3905	CUGUGUAC GGCUAGCUACAACGA AGGGCACA	2757	UGUGCCCU G GUACACAG	5536

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3907	GCCTGTGT GGCTAGCTACAACGA ACAGGGCA	2758	GGCCUGU A ACACAGGC	5537
3909	TGGCCTGT GGCTAGCTACAACGA GTACAGGG	2759	CCCUGUAC A ACAGGCGA	5538
3913	GTCCTGGC GGCTAGCTACAACGA CCTGGTAC	2760	GUACACAG G GCGAGGAC	5539
3919	TGCAGGGT GGCTAGCTACAACGA CCTGGGCT	2761	AGGCGAGG A ACCUGCA	5540
3924	CCAGGTGC GGCTAGCTACAACGA AGGGTCCT	2762	AGGACCUU G GCACCUGG	5541
3925	ATCCAGGT GGCTAGCTACAACGA GGAGGGTC	2763	GACCUUGC A ACCUGGAU	5542
3932	ACCCCCAT GGCTAGCTACAACGA CCCAGGGC	2764	GCAUCUGG A AUGGGGGU	5543
3933	ACAGGGAC GGCTAGCTACAACGA CCCCATCC	2765	GGAUGGGG G GUCCCUGU	5544
3944	TGACCCAC GGCTAGCTACAACGA AGGGACCC	2766	GGGUCCCU G GUGGGUCA	5545
3948	AATTTGAC GGCTAGCTACAACGA CCACAAGG	2767	CCUUGUCC G GUCAAAUU	5546
3953	CCCGCAAT GGCTAGCTACAACGA TTCACCCA	2768	UGGUCAA A AUUGAGGG	5547
3964	CACGGCAC GGCTAGCTACAACGA CCCCCCAC	2769	GGGGGAG G GUGCCGUG	5548
3966	CCCACAGC GGCTAGCTACAACGA ACCCCCCC	2770	GGGGAGGU G GUUGUGGG	5549
3969	ACCCCCAC GGCTAGCTACAACGA AACCCA	2771	GAGGUGCU G GUGGGAGU	5550
3975	TATTTTAC GGCTAGCTACAACGA TCCCACAG	2772	CUGUGGGA G GUAAAAUA	5551
3980	CTCACAAT GGCTAGCTACAACGA TTTACTCC	2773	GGAGUAA A AGACUGAA	5552
3982	TATTCAGT GGCTAGCTACAACGA ATTTACT	2774	AGUAAAAU A ACUGAAUA	5553
3987	TCATATAT GGCTAGCTACAACGA TCAGTATT	2775	AAACUGAA A AUAUAUGA	5554
3989	ACTACTAT GGCTAGCTACAACGA ATTCAGTA	2776	UACUGAAU A ARAUGAGU	5555
3991	AAACTCAT GGCTAGCTACAACGA ATATTCAG	2777	CUGAAUAU A AUGAGUUU	5556
3995	TGAAAAAC GGCTAGCTACAACGA TCATATAT	2778	AUAUAUGA G GUUUUUCA	5557
4005	TTCAAAAC GGCTAGCTACAACGA TGAAAAAC	2779	GUUUUUCA G GUCCCGAA	5558

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp), Nakamura *et al.*, Science 277 (5328), 955-959 (1997)

Cut Site = R/Y (Purine/Pyrimidine)

Stem Length = 8 . Core Sequence = GGCTAGCTACAACGA

Table VII: Anti-TERT HH and G-Cleaver Ribozymes

Alias	Ribozyme Sequence	Seq ID Number	Length (nt)
HH			
TERT-1051	AGGAGUA CUGAUGAGGCCGUUAGGCCGAA AGGAAGU	5559	36
TERT-1053	UGAGGAG CUGAUGAGGCCGUUAGGCCGAA AGAGGAA	5560	36
TERT-1918	UGAAGCG CUGAUGAGGCCGUUAGGCCGAA AGUCUGG	5561	36
TERT-2383	GAGCCAC CUGAUGAGGCCGUUAGGCCGAA AACUGUC	5562	36
TERT-2485	UGAAGCG CUGAUGAGGCCGUUAGGCCGAA AGGAAGA	5563	36
TERT-2566	GCGUGGA CUGAUGAGGCCGUUAGGCCGAA AGGAUGG	5564	36
TERT-3181	AGUAGCA CUGAUGAGGCCGUUAGGCCGAA AGGGAGG	5565	36
TERT-3691	CUGUGGG CUGAUGAGGCCGUUAGGCCGAA AAGUGAA	5566	36
TERT-3758	AUGUGGG CUGAUGAGGCCGUUAGGCCGAA AGUGGAA	5567	36
TERT-3794	GGUGAAC CUGAUGAGGCCGUUAGGCCGAA AUGGCGA	5568	36
G-Cleaver			
TERT-757	UUGGG UGAUGGCAUGCACUAUGCGCG AACGGCAGAC	4332	36
TERT-2353	UCUGU UGAUGGCAUGCACUAUGCGCG AAGGUAGAGA	4471	36
TERT-3795	GUGAA UGAUGGCAUGCACUAUGCGCG AAUGGCGAAU	4594	36